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Housing Units Authorized in Virginia's Counties and Cities:

1st and 2nd Quarters, 1988

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Center for Public Service
University of Virginia

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December 1988

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FOREWORD

The Center for Public Service is pleased to present the latest report in our series, *Housing Units Authorized in Virginia's Counties and Cities.*

Produced by the Center's Demographic Section, this series began in 1970 as an annual report. In 1976 the series was made quarterly. Reports in the series now appear three times a year, with two issues covering quarterly activity and an annual summary. In addition to data for counties and independent cities, *Housing Units Authorized* gives totals for each of the state's twenty-two planning districts and eight metropolitan statistical areas.

The Center wishes to thank the following individuals for their assistance in collecting the permit data presented in this report: Glen Skinner, LENOWISCO Planning District Commission; Sally Morgan, Mount Rogers Planning District Commission; Elaine Echols and Todd Steiss, Mount Rogers Planning District Commission; Helen Smithers, FIFTH Planning District Commission; William Vaughn, Central Shenandoah Planning District Commission; Lisa Phillips, Rappahannock–Rapidan Planning District Commission; James B. Caravati, Thomas Jefferson Planning District Commission; Mathew Montavon, Central Virginia Planning District Commission; Robert Dowd, West Piedmont Planning District Commission; Gail Moody, Southside Planning District Commission; Jack Houghton, Piedmont Planning District Commission; V. Reynolds, Northern Neck Planning District Commission; Jeff Burdett, Middle Peninsula Planning District Commission; Joseph J. Vinsh, Jr., Crater Planning District Commission; Claudia B. Gooch and Debra M. Darr, Southeastern Virginia Planning District Commission; Paul Berge, Accomack–Northampton Planning District Commission; C. Earl Hillard, Page County Building Official.

Special thanks go to the authors of this report. They labored diligently and with insight to produce this publication. Also, thanks go to other staff members at the Center for Public Service who assisted the authors in preparing this study. George E. Barnes and Sandra H. Wiley edited the report. Barry A. Jackson designed the layout. Tyler Fox typed several of the tables.

We hope readers will find this report to be a useful source of information on building activity in the state, and we will be pleased to answer questions about the data.

A.E. Dick Howard
Director, Center for Public Service
University of Virginia

Charlottesville
December 1988

SUMMARY

In the first quarter of 1988, 15,140 new housing units were authorized for construction in Virginia, a figure nearly 12 percent higher than the average for this quarter during the past five years. In the second quarter, with 17,912 new units authorized, building activity fell 5 percent compared to the average second quarter. The state's construction activity in the first quarter was slightly above the national average, while in the second quarter Virginia's housing industry performed at about the same level as the nation as a whole.

Between the last census count of housing (April 1, 1980) and the end of June 1988, permits for 500,214 housing units (including mobile homes) were issued in Virginia. This represents an increase of 25 percent over the 2,020,941 units counted in the 1980 Census.

In both the first and second quarters Fairfax County led the state in construction activity, issuing over twice as many permits as the next closest locality. The five leading planning districts in number of permits issued during both quarters were Northern Virginia, Southeastern Virginia, Richmond Regional, Peninsula, and RADCO. These five districts combined accounted for about 70 percent of all building activity in the state.

Three of the state's eight Metropolitan Statistical Areas—the Virginia portion of Washington, D.C., Richmond–Petersburg, and Norfolk–Virginia Beach–Newport News—led the state in building activity. Combined, these three metropolitan areas accounted for about three-quarters of all construction in the Commonwealth.

The average cost of a single-family dwelling in Virginia decreased from $71,794 in the fourth quarter of 1987 to $67,515 in the first quarter of 1988 (a decline of nearly 6 percent). In the second quarter, however, the average cost rose to $69,371 (an increase of less than 3 percent). The total value of residential housing constructed in Virginia during 1987 (the last year for which complete data are available) was about $3.7 billion, and the value of nonresidential construction was about $2 billion.

Construction of single-family units accounts for the majority of building activity in most localities. In a few localities, however, construction of multi-family units predominates. In both the first and second quarters, for example, multi-family units accounted for more than half of all permits issued in Arlington County and the cities of Charlottesville, Norfolk, and Radford.

ANALYSIS

Introduction

Building activity is one of the most frequently used indicators of economic and demographic change. Presently, the number of housing units authorized by local building permits is the best measure of housing starts available for Virginia's counties and independent cities. Most of the information contained in this report is supplied by local building officials to the Construction Division of the U.S. Bureau of the Census. The Bureau, in turn, forwards the data to the Center for Public Service where they are tabulated and compiled. For about forty of the state's smallest localities building permit statistics are collected by the planning districts directly from local building officials, and then forwarded to the Center for tabulation.

In this report, Tables 1 and 2 give annual totals for the value of residential and nonresidential construction in the state. Table 3 presents the number of residential building permits issued for housing units in Virginia localities for January–March 1988; Table 4 gives this data for April–June 1988. The data in this series include number of permits issued by structure type, aggregate value of these permits, number of demolitions recorded in each locality, and net increase in housing stock.

Tables 5 and 6 provide historical data (1980–1987) on the total number of permits issued during the first and second quarters, respectively. Tables 7 and 8 show the annual percentage change from year to year in the total number of permits issued; Table 7 contains data for first-quarter changes, and Table 8 contains analogous data for the second quarter.

We are continuing the policy of not publishing data imputed by the Census Bureau. Localities that did not file a complete set of monthly reports are identified by footnotes in both tables. Localities that make annual rather than monthly reports are also noted in the tables.

In January 1987 the Census Bureau stopped collecting information on mobile homes; this is why most localities are listed as having issued no mobile home permits. The Center for Public Service continues to collect mobile home data for some localities, but these data should be interpreted cautiously, since it has come to our attention that many localities do not distinguish between new mobile homes and mobile homes that are relocating within the locality.

The cost figures reported here are estimated construction costs submitted by the builders, and often exclude land acquisition costs or the builders' profit margin. Additionally, the Census Bureau estimates that nationwide underestimation of costs on construction itself (i.e., materials and labor) runs from about 17.5 percent for single units, to about 30 percent for structures of two to four units, to more than 50 percent for structures of five or more units. The figures for average cost per unit, therefore, do not represent an estimate of the price of housing to the consumer. Despite these limitations, construction costs constitute a large proportion of the total market cost of housing, and thus the reported figures provide an important means of comparison among localities and for one area over time.

Data on the number of permits issued are considerably more reliable than the data for costs.

TABLE 1.
Aggregate Residential Construction Costs, Virginia: 1970–87

Year	Value of Construction in Current Dollars (in Millions $)	Census Bureau Construction Cost Index	Deflated Value of Construction in Constant 1982 Dollars (in Millions $)
1970	544.7	35.7	1,525.8
1971	1,023.0	37.7	2,713.5
1972	1,237.2	40.1	3,085.3
1973	1,332.9	43.9	3,036.2
1974	879.7	48.4	1,817.6
1975	838.9	52.8	1,588.8
1976	1,003.8	56.6	1,773.5
1977	1,564.5	63.2	2,475.5
1978	1,703.2	72.3	2,355.7
1979	1,617.3	81.7	1,979.6
1980	1,357.3	90.6	1,498.1
1981	1,134.8	97.7	1,161.5
1982	1,260.3	100.0	1,260.3
1983	2,257.8	102.6	2,200.6
1984	2,601.8	106.4	2,445.3
1985	3,018.9	109.6	2,754.5
1986	3,770.9	111.8	3,372.9
1987	3,660.4	114.4	3,199.7

SOURCES: Census Bureau Construction Cost Index from U.S. Department of Commerce, *Construction Review* 33 (March–April 1988), Table E–1; annual data from previous editions of *Housing Units Authorized.*

NOTE: Deflated value = current value x (100 / index value).

The Census Bureau considers its estimates of housing authorizations in Virginia to be accurate to within plus or minus 1 percent.

First-Quarter Trends

During the first quarter 15,140 housing units were authorized for construction in Virginia. Mobile homes accounted for 629 permits, with the balance, 14,511 permits, being for single-family or multi-unit structures. This level of building activity represents an 11.8 percent increase over the previous five first quarters, from 1983 to 1987, when an average of about 13,000 permits were issued quarterly (this comparison excludes mobile homes). Despite this above-average performance, permit activity during the quarter was down 4 percent compared to the same quarter a year ago. Permit activity was up—by 3.4 percent—from the previous quarter, although there is normally a 14 percent seasonal decrease between the fourth and first quarters.

A total of 10,295 single-family housing unit permits were issued during the quarter, an increase of 5 percent over the five-year average of 9,800 units per quarter. Compared to the same quarter a year ago 8 percent more single-family unit permits were issued, and compared to the fourth quarter of 1987, nearly 9 percent more permits were issued. Figure 1 shows quarterly

TABLE 2.
Aggregate Nonresidential Construction Costs, Virginia: 1980–87

Year	Value of Construction in Current Dollars (in Millions $)	Boeckh Index for Commercial and Factory Buildings	Deflated Value of Construction in Constant 1982 Dollars (in Millions $)
1980	664.9	84.1	790.6
1981	781.6	92.2	847.7
1982	790.4	100.0	790.4
1983	1,013.6	105.3	962.6
1984	1,242.8	109.4	1,136.0
1985	1,425.5	111.3	1,280.8
1986	1,855.1	113.2	1,638.8
1987	1,976.6	115.1	1,717.3

SOURCES: Boeckh Index from U.S. Department of Commerce, *Construction Review* 33 (March–April 1988), Table E–1; annual data from previous editions of *Housing Units Authorized.*

NOTES: The Boeckh Index is an independent index of construction costs compiled by The American Appraisal Company, Inc. Deflated value = current value x (100 / index value).

changes since 1980 in the total number of permits issued and the number of single-family unit permits.

The total value of all permits (excluding mobile homes) issued during the first quarter was $811.3 million, 4.3 percent higher than the $777.6 million issued during the same quarter a year ago. The total value of all single-family unit permits issued was $695.1 million, compared to $600.4 million a year ago, an increase of 15.8 percent.

First-quarter construction costs per unit declined slightly for single-family units, and showed a moderate decline as well for all unit types combined (single-family units, mobile homes, and multi-unit structures). The average cost of a single-family unit decreased from $71,794 in the fourth quarter to $67,515 in the first, a drop of nearly 6 percent. For all unit types average costs declined from $55,873 to $53,956, a drop of 3.4 percent. Figure 2 shows quarterly changes since 1980 in the average cost of all units and single-family units.

Virginia's construction performance during the quarter was slightly above the national average. Between the fourth quarter of 1987 and the first quarter of 1988, the number of permits issued for all units increased 3 percent in Virginia but declined 5 percent in the U.S. In both Virginia and the U.S., the first-quarter performance for 1988 declined from the first quarter of 1987, but the decline in the state was only 4 percent compared to 15 percent nationally.

For single-family units, Virginia and the U.S. moved in opposite directions in one important comparison. In the U.S., single-family unit permits issued during the first quarter increased about 3 percent compared to the preceding quarter but decreased 10 percent compared to the same quarter a year ago. In Virginia permits of this kind increased 9 percent since the preceding quarter, and also increased 8 percent over the same quarter a year ago.

Despite these differences in quarterly results, a comparison of Virginia and U.S. permit activity on an annual basis discloses long-term similarities in the basic trends. Figure 3 shows the parallel movements of annual permit activity for Virginia (measured on the left vertical axis) and the United States (measured on the right vertical axis).

FIGURE 1.
Number of Permits Issued, 1980:1–1988:2

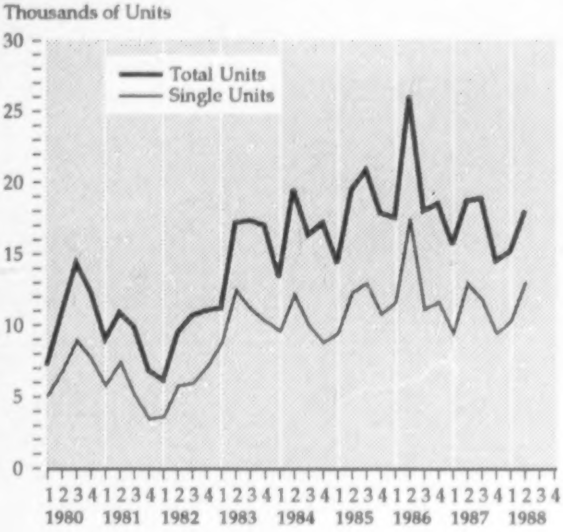


FIGURE 2.
Average Value of Permits Per Unit, 1980:1–1988:2

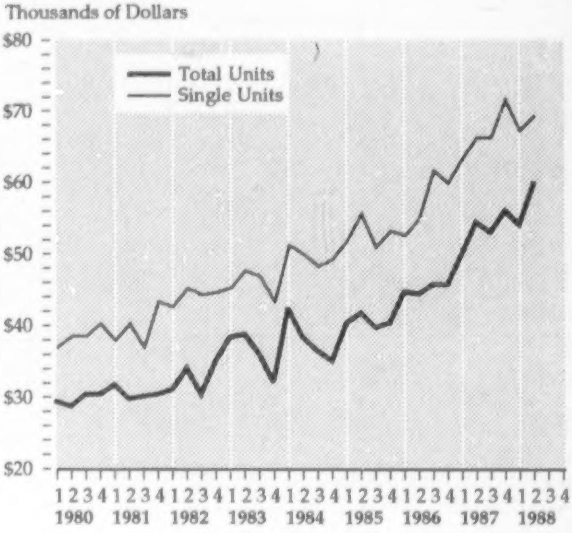
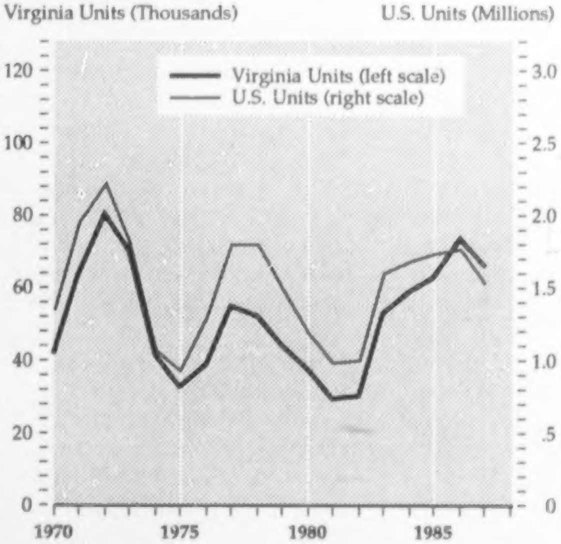
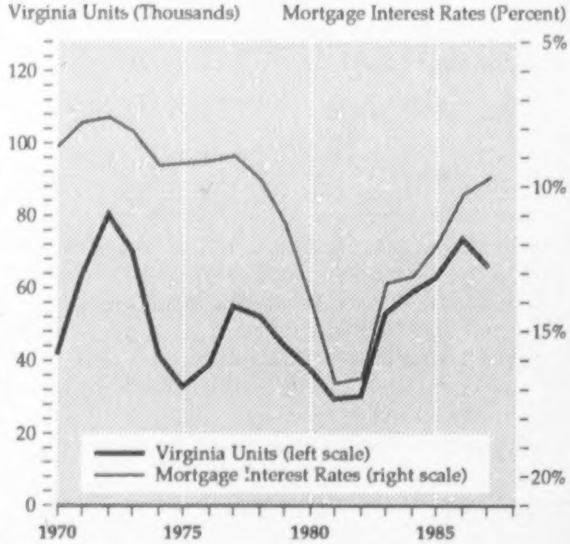


FIGURE 3.
Residential Permits Issued in Virginia and the United States, 1970–87



NOTE: Mobile unit permits not included.

FIGURE 4.
Residential Permits Issued in Virginia and Mortgage Interest Rates, 1970–87



NOTE: Mobile unit permits not included.

One reason why building trends are so similar in Virginia and the U.S. is because the housing industry throughout the country is so closely tied to the availability and cost of money. Simply, when mortgage interest rates increase, building activity declines, and vice-versa. Figure 4 shows the close relationship between building activity in Virginia, as measured by the total number of permits issued, and interest rates for the United States. State permits are measured on the left vertical axis, while mortgage interest rates (more precisely, the average effective commitment rate for 25-year term, 75 percent loan-to-price ratio mortgages) are measured, inverted, on the right vertical axis. This figure shows that prior to 1977 housing construction reacted strongly to even minor fluctuations in interest rates, while since the late 1970s the response to rate changes has been more nearly proportional.

A significant proportion of all building permits issued in the Commonwealth were concentrated in just four of the state's 22 planning districts (PDs). The Northern Virginia PD, which includes Fairfax County and other localities near Washington, D.C., led the state with 5,002 permits issued, or nearly a third of all permits issued statewide. The Richmond Regional PD, which includes Richmond City and its surrounding suburban counties like Chesterfield and Henrico, ranked second with 2,916 permits issued—19.3 percent of the state total. The Southeastern Virginia PD, which includes Virginia Beach, Chesapeake, Portsmouth, and Norfolk cities, issued 1,963 permits, or 13 percent of the state total. Peninsula PD, which includes Hampton and Newport News cities, was in fourth place with 825 permits, about 5 percent of the state total. Combined, these four PDs accounted for 10,706 permits, about 71 percent of all permits issued in Virginia.

Another way of looking at the concentration of building activity in Virginia is to focus on the state's eight Metropolitan Statistical Areas (MSAs). MSAs are groups of economically and socially integrated counties and cities designated by the Office of Management and Budget. Six MSAs—including Charlottesville, Danville, Lynchburg, Norfolk–Virginia Beach–Newport News (referred to as Norfolk in the tables), Richmond–Petersburg (referred to as Richmond in the tables), and Roanoke—lie wholly within Virginia's borders, as do portions of two others—Washington, D.C. (referred to as Northern Virginia), and Johnson City–Kingsport–Bristol (referred to as Bristol).

Because metropolitan areas contain the state's largest cities and counties, and thus most of the population, it is not surprising to find that most of the state's building activity is also located in these areas. In fact, building activity is slightly more concentrated in the MSAs than is the population. Provisional population estimates for 1987 indicate that Virginia's MSAs contain about 72 percent of the state's total population, while during the first quarter of this year MSAs accounted for 78 percent of all housing construction.

Three of the state's MSAs had particularly high levels of building activity. Northern Virginia (that portion of the Washington, D.C. MSA in Virginia) issued permits for 5,308 units, equivalent to 35 percent of the state total. The Richmond–Petersburg MSA issued 3,102 permits, equal to a fifth of the state total. Norfolk–Virginia Beach–Newport News issued 2,620 permits, or 17 percent of the total.

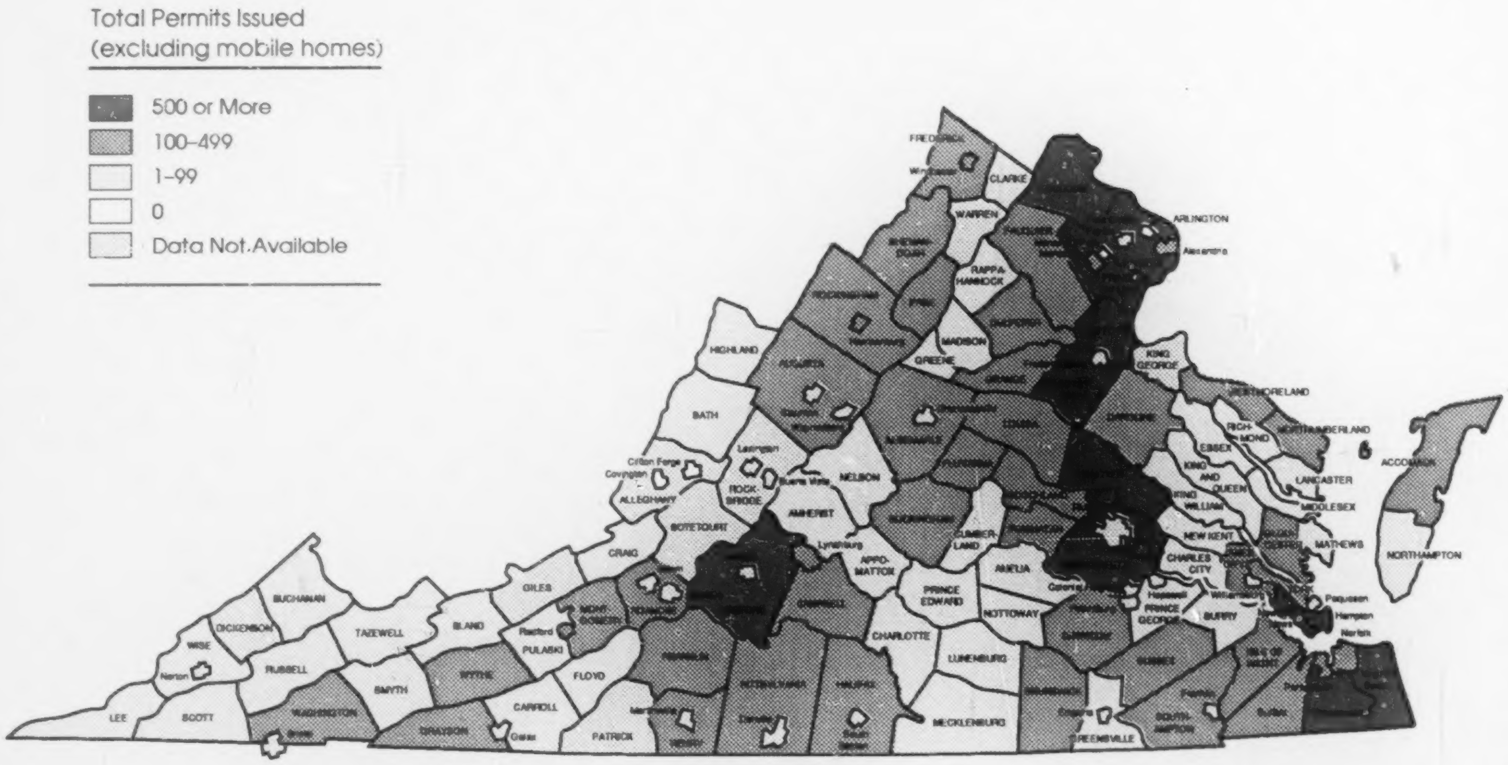
Individual localities where building activity was particularly strong include Fairfax County (3,178 permits), Henrico County (1,635), Prince William County (953), Virginia Beach City (892), Chesterfield County (794), and Chesapeake City (505). See Figure 5 for additional information on the distribution of building permits for individual localities.

Second-Quarter Trends

During the second quarter 17,912 housing units were authorized for construction in the state, including permits for 977 mobile homes. Excluding mobile homes, the 16,935 single-family and multi-unit permits issued represent a 5 percent decrease over the previous five second quarters, when an average of 17,800 permits were issued quarterly. Building activity during the quarter was somewhat lower than during the same quarter a year ago (down by 4 percent); but it was higher than the previous quarter, up by 18 percent.

A total of 13,044 single-family housing unit permits were issued in the second quarter, a decrease of about 3 percent from the five-year average of 13,500 units per quarter. Compared to the

FIGURE 5.
Total Permits Issued, January–June 1988


Total Permits Issued
(excluding mobile homes)
500 or More
100–499
1–99
0
Data Not Available
FREDERICK
Winchester
CLARKE
WARREN
ARLINGTON
Alexandria
RAPPA-HANNOCK
MADISON
GREENE
KING GEORGE
WESTMORELAND
NORTHUMBERLAND
RICH-MOND
ESSEX
KING AND QUEEN
KING WILLIAM
LANCASTER
MIDDLESEX
MATHEWS
NEW KENT
CHARLES CITY
ACCOMACK
NORTHAMPTON
Poquoson
Hampton
Norfolk
Hopewell
Williamsburg
PRINCE GEORGE
SURRY
SOUTH-AMPTON
GREENSVILLE
Emporia
MECKLENBURG
LUNENBURG
CHARLOTTE
NOTTOWAY
PRINCE EDWARD
AMELIA
Colonial Heights
CUMBER-LAND
APPO-MATTOX
NELSON
AMHERST
Lynchburg
HIGHLAND
BATH
Clifton Forge
Covington
ALLEGHANY
Lexington
Buena Vista
ROCK-BRIDGE
BOTETOURT
CRAIG
GILES
BLAND
Radford
PULASKI
FLOYD
CARROLL
Galax
PATRICK
GRAYSON
TAZEWELL
BUCHANAN
DICKENSON
WISE
Norton
RUSSELL
SMYTH
WYTHE
LEE
SCOTT

same quarter a year ago there was an increase of just 0.8 percent in the number of single-family unit permits issued. There was a more substantial increase in the number of single-family unit permits issued between the first and second quarters of this year, up nearly 27 percent.

The value of all permits issued during the second quarter (excluding mobile homes) was $1,056.9 million, compared to $1,012.6 million during the same quarter a year ago, an increase of 4.4 percent. The total value of all single-family unit permits was $904.9 million, compared to $857.9 million a year ago, an increase of 5.5 percent.

During the second quarter, per-unit construction costs increased rapidly from their first quarter levels. For all unit types combined the increase was 10.3 percent, from $53,956 to $59,528 per unit. For single-family units costs increased at a more modest 2.7 percent, from $67,515 to $69,371.

Building activity in Virginia during the second quarter closely paralleled the national pattern in all comparisons but one. Between the first and second quarters the number of single-family unit permits issued increased 27 percent in Virginia and 41 percent in the U.S. The total number of permits issued increased 17 percent in the state, and 42 percent in the nation. Comparing the second quarters of 1987 and 1988, the number of single-family unit permits issued *declined* 4 percent in the U.S. but *increased* slightly in Virginia, while the total number of permits issued declined 5 percent both nationally and in Virginia.

The concentration of building activity in the Commonwealth's planning districts showed the same geographic pattern as in the first quarter, although the rank of some planning districts changed. The Northern Virginia PD again ranked first, issuing 5,379 residential building permits, about 30 percent of the state total. The Southeastern Virginia PD ranked second, issuing 2,677 permits—15 percent of the total. Third was the Richmond Regional PD, with nearly 14 percent of all permits issued statewide, about 2,450. In fourth position came Peninsula PD, which issued 1,340 permits, 7.5 percent of the state total. The RADCO PD (Fredericksburg City and its surrounding counties) came fifth, issuing 925 permits or 5.2 percent of the state total. Together these five planning districts accounted for 71 percent of all permits issued in Virginia.

The state's eight MSAs combined accounted for nearly three-quarters of the total number of permits issued in Virginia. Northern Virginia led with 5,735 permits, equal to nearly a third of the state total. The Norfolk–Virginia Beach–Newport News MSA ranked second, with 3,910 permits, or 22 percent of the state. The Richmond–Petersburg MSA was in third position, issuing 2,592 permits, equal to 14.5 percent of the state total. Of the five remaining MSAs, none had as much as 5 percent of the state total.

Eight localities issued five hundred or more building permits during the second quarter. These included Fairfax County (2,600 permits), Virginia Beach City (1,583), Prince William County (1,210), Chesterfield County (1,136), Henrico County (689), Loudoun County (646), Chesapeake City (561), and Arlington County (507).

TABLE 3.
Residential Building Permits Issued in Virginia Localities, First Quarter, 1988

		Total Units Authorized		Total Mobile Units		Total Private Units		Single Units	
Line	Jurisdiction	Number	$000	Number	$000	Number	$000	Number	$000
	COUNTIES								
1	Accomack	63	2,603.5	0	0.0	63	2,603.5	57	2,453.5
2	Albemarle	119	11,497.9	0	0.0	119	11,497.9	106	10,422.5
3	Alleghany (RA)	—	—	—	—	—	—	—	—
4	Amelia	35	1,099.1	15	199.3	20	899.8	20	899.8
5	Amherst	19	1,074.8	0	0.0	19	1074.8	19	1,074.8
6	Appomattox	34	978.0	22	276.0	12	702.0	10	657.0
7	Arlington	367	12,490.6	0	0.0	367	12,490.6	37	3,650.6
8	Augusta	120	8,274.7	0	0.0	120	8,274.7	120	8,274.7
9	Bath[1]	3	402.5	0	0.0	3	402.5	3	402.5
10	Bedford	251	NA	101	NA	150	NA	150	NA
11	Bland	11	192.2	7	57.0	4	135.2	4	135.2
12	Botetourt (RA)	—	—	—	—	—	—	—	—
13	Brunswick	54	1,131.2	40	510.5	14	620.6	12	600.6
14	Buchanan	3	92.0	0	0.0	3	92.0	3	92.0
15	Buckingham	42	1,135.6	27	227.5	15	908.0	15	908.0
16	Campbell	107	5,047.2	0	0.0	107	5,047.2	75	4,172.2
17	Caroline	52	2,969.4	0	0.0	52	2,969.4	50	2,908.9
18	Carroll	16	776.0	0	0.0	16	776.0	16	776.0
19	Charles City	13	682.1	0	0.0	13	682.1	13	682.1
20	Charlotte	10	434.7	0	0.0	10	434.7	10	434.7
21	Chesterfield	794	47,860.1	0	0.0	794	47,860.1	794	47,860.1
22	Clarke	31	3,132.0	0	0.0	31	3,132.0	31	3,132.0
23	Craig	17	454.8	8	111.8	9	343.1	9	343.1
24	Culpeper	38	2,283.4	0	0.0	38	2,283.4	32	1,903.2
25	Cumberland	14	428.3	8	76.3	6	352.0	6	352.0
26	Dickenson (RA)	—	—	—	—	—	—	—	—
27	Dinwiddie	87	2,427.9	0	0.0	87	2,427.9	55	2,046.9
28	Essex	14	581.0	7	119.2	7	461.8	7	461.8
29	Fairfax	3,178	166,943.8	0	0.0	3,178	166,943.8	1,817	128,576.2
30	Fauquier[1]	97	18,030.4	0	0.0	97	18,030.4	95	17,965.4
31	Floyd	35	453.0	24	NA	11	453.0	11	453.0
32	Fluvanna	72	4,847.4	1	21.5	71	4,825.9	71	4,825.9
33	Franklin	118	9,195.9	0	0.0	118	9,195.9	118	9,195.9
34	Frederick	172	11,638.1	0	0.0	172	11,638.1	172	11,638.1
35	Giles (RA)	—	—	—	—	—	—	—	—
36	Gloucester[2]	17	1,091.4	0	0.0	17	1,091.4	17	1,091.4
37	Goochland	43	3,600.4	0	0.0	43	3,600.4	43	3,600.4
38	Grayson	25	776.8	11	125.1	14	651.7	14	651.7
39	Greene	30	1,501.4	8	212.5	22	1,288.9	22	1,288.9
40	Greensville	21	615.7	13	288.6	8	327.1	8	327.1

Duplex Units		3–4 Units		5+ Units		Demolitions			Total Housing Units Less Number of Demolitions	Line
Number	$000	Number	$000	Number	$000	Private	Public	Total		
6	150.0	0	0.0	0	0.0	0	0	0	63	1
0	0.0	0	0.0	13	1,075.4	0	0	0	119	2
—	—	—	—	—	—	—	—	—	—	3
0	0.0	0	0.0	0	0.0	0	0	0	35	4
0	0.0	0	0.0	0	0.0	5	0	5	14	5
2	45.0	0	0.0	0	0.0	2	0	2	32	6
0	0.0	0	0.0	330	8,840.0	0	0	0	367	7
0	0.0	0	0.0	0	0.0	1	0	1	119	8
0	0.0	0	0.0	0	0.0	0	0	0	3	9
0	0.0	0	0.0	0	0.0	0	0	0	251	10
0	0.0	0	0.0	0	0.0	0	0	0	11	11
—	—	—	—	—	—	—	—	—	—	12
2	20.0	0	0.0	0	0.0	0	0	0	54	13
0	0.0	0	0.0	0	0.0	0	0	0	3	14
0	0.0	0	0.0	0	0.0	0	0	0	42	15
0	0.0	0	0.0	32	875.0	23	0	23	84	16
2	60.5	0	0.0	0	0.0	0	0	0	52	17
0	0.0	0	0.0	0	0.0	0	0	0	16	18
0	0.0	0	0.0	0	0.0	0	0	0	13	19
0	0.0	0	0.0	0	0.0	0	0	0	10	20
0	0.0	0	0.0	0	0.0	0	0	0	794	21
0	0.0	0	0.0	0	0.0	2	0	2	29	22
0	0.0	0	0.0	0	0.0	0	0	0	17	23
2	245.0	4	135.3	0	0.0	0	0	0	38	24
0	0.0	0	0.0	0	0.0	0	0	0	14	25
—	—	—	—	—	—	—	—	—	—	26
32	381.0	0	0.0	0	0.0	0	0	0	87	27
0	0.0	0	0.0	0	0.0	0	0	0	14	28
0	0.0	16	538.0	1,345	37,829.5	0	0	0	3,178	29
2	65.0	0	0.0	0	0.0	0	0	0	97	30
0	0.0	0	0.0	0	0.0	0	0	0	35	31
0	0.0	0	0.0	0	0.0	0	0	0	72	32
0	0.0	0	0.0	0	0.0	0	0	0	118	33
0	0.0	0	0.0	0	0.0	0	0	0	172	34
—	—	—	—	—	—	—	—	—	—	35
0	0.0	0	0.0	0	0.0	0	0	0	17	36
0	0.0	0	0.0	0	0.0	0	0	0	43	37
0	0.0	0	0.0	0	0.0	0	0	0	25	38
0	0.0	0	0.0	0	0.0	1	0	1	29	39
0	0.0	0	0.0	0	0.0	0	0	0	21	40

TABLE 3. (continued)
Residential Building Permits Issued in Virginia Localities, First Quarter, 1988

Line	Jurisdiction	Total Units Authorized Number	Total Units Authorized $000	Total Mobile Units Number	Total Mobile Units $000	Total Private Units Number	Total Private Units $000	Single Units Number	Single Units $000
	COUNTIES (continued)								
41	Halifax	74	1,527.1	53	632.6	21	894.5	21	894.5
42	Hanover	294	18,502.6	0	0.0	294	18,502.6	294	18,502.6
43	Henrico	1,635	53,955.8	0	0.0	1,635	53,955.8	460	28,570.3
44	Henry	53	3,226.0	0	0.0	53	3,226.0	47	3,096.0
45	Highland	5	175.8	1	0.8	4	175.0	4	175.0
46	Isle of Wight	99	3,718.1	53	NA	46	3,718.1	46	3,718.1
47	James City	233	25,583.4	0	0.0	233	25,583.4	172	19,000.9
48	King and Queen	8	64.6	8	64.6	0	0.0	0	0.0
49	King George (RA)	—	—	—	—	—	—	—	—
50	King William	28	1,504.4	0	0.0	28	1,504.4	28	1,504.4
51	Lancaster	39	3,728.7	2	55.0	37	3,673.7	37	3,673.7
52	Lee	15	527.1	0	0.0	15	527.1	15	527.1
53	Loudoun	427	22,741.6	0	0.0	427	22,741.6	308	19,421.9
54	Louisa[1]	22	1,008.9	0	0.0	22	1,008.9	22	1,008.9
55	Lunenburg	22	393.4	19	328.4	3	65.0	3	65.0
56	Madison	27	1,608.2	3	33.4	24	1,574.8	24	1,574.8
57	Mathews	18	1,011.2	3	26.7	15	984.5	15	984.5
58	Mecklenburg	21	1,318.0	0	0.0	21	1,318.0	21	1,318.0
59	Middlesex	43	1,786.3	13	102.8	30	1,683.6	26	1,659.6
60	Montgomery	158	6,977.2	0	0.0	158	6,977.2	79	4,807.1
61	Nelson	61	4,578.5	0	0.0	61	4,578.5	59	4,528.5
62	New Kent	39	2,362.0	0	0.0	39	2,362.0	39	2,362.0
63	Northampton	30	937.5	13	149.5	17	788.0	17	788.0
64	Northumberland	61	3,168.7	13	174.6	48	2,994.1	48	2,994.1
65	Nottoway	25	758.4	11	82.9	14	675.5	14	675.5
66	Orange	55	3,548.9	6	NA	49	3,548.9	47	3,478.9
67	Page	46	1,520.3	19	278.4	27	1,241.9	27	1,241.9
68	Patrick (RA)	—	—	—	—	—	—	—	—
69	Pittsylvania	67	3,588.3	0	0.0	67	3,588.3	63	3,520.3
70	Powhatan	51	2,624.0	0	0.0	51	2,624.0	51	2,624.0
71	Prince Edward	27	801.8	14	143.1	13	658.7	13	658.7
72	Prince George	50	3,017.5	0	0.0	50	3,017.5	50	3,017.5
73	Prince William	953	58,793.2	0	0.0	953	58,793.2	945	58,565.5
74	Pulaski	53	2,078.1	0	0.0	53	2,078.1	35	1,803.1
75	Rappahannock	20	2,222.0	0	0.0	20	2,222.0	20	2,222.0
76	Richmond	20	731.4	9	109.4	11	622.0	11	622.0
77	Roanoke	107	6,061.5	0	0.0	107	6,061.5	105	6,009.1
78	Rockbridge (RA)	—	—	—	—	—	—	—	—
79	Rockingham[1]	69	3,149.8	0	0.0	69	3,149.8	27	2,057.8
80	Russell	16	801.5	0	0.0	16	801.5	16	801.5

Duplex Units		3–4 Units		5+ Units		Demolitions			Total Housing Units Less Number of Demolitions	Line
Number	$000	Number	$000	Number	$000	Private	Public	Total		
0	0.0	0	0.0	0	0.0	0	0	0	74	41
0	0.0	0	0.0	0	0.0	0	0	0	294	42
0	0.0	0	0.0	1,175	25,385.5	15	0	15	1,620	43
0	0.0	6	130.0	0	0.0	0	0	0	53	44
0	0.0	0	0.0	0	0.0	0	0	0	5	45
0	0.0	0	0.0	0	0.0	5	0	5	94	46
2	72.0	27	4,649.5	32	1,861.0	1	0	1	232	47
0	0.0	0	0.0	0	0.0	0	0	0	8	48
—	—	—	—	—	—	—	—	—	—	49
0	0.0	0	0.0	0	0.0	0	0	0	20	50
0	0.0	0	0.0	0	0.0	3	0	3	36	51
0	0.0	0	0.0	0	0.0	0	0	0	15	52
0	0.0	0	0.0	119	3,319.7	0	0	0	427	53
0	0.0	0	0.0	0	0.0	0	0	0	22	54
0	0.0	0	0.0	0	0.0	0	0	0	22	55
0	0.0	0	0.0	0	0.0	0	0	0	27	56
0	0.0	0	0.0	0	0.0	0	0	0	18	57
0	0.0	0	0.0	0	0.0	0	0	0	21	58
4	24.0	0	0.0	0	0.0	0	0	0	43	59
8	254.0	3	135.0	68	1,781.1	1	0	1	157	60
2	50.0	0	0.0	0	0.0	0	0	0	61	61
0	0.0	0	0.0	0	0.0	0	0	0	39	62
0	0.0	0	0.0	0	0.0	0	0	0	30	63
0	0.0	0	0.0	0	0.0	0	0	0	61	64
0	0.0	0	0.0	0	0.0	1	0	1	24	65
2	70.0	0	0.0	0	0.0	0	0	0	55	66
0	0.0	0	0.0	0	0.0	0	0	0	46	67
—	—	—	—	—	—	—	—	—	—	68
0	0.0	4	68.0	0	0.0	0	0	0	67	69
0	0.0	0	0.0	0	0.0	0	0	0	51	70
0	0.0	0	0.0	0	0.0	0	0	0	27	71
0	0.0	0	0.0	0	0.0	0	0	0	50	72
0	0.0	0	0.0	8	227.7	1	0	1	952	73
2	50.0	16	225.0	0	0.0	1	0	1	52	74
0	0.0	0	0.0	0	0.0	1	0	1	19	75
0	0.0	0	0.0	0	0.0	0	0	0	20	76
2	52.4	0	0.0	0	0.0	6	0	6	101	77
—	—	—	—	—	—	—	—	—	—	78
0	0.0	0	0.0	42	1,092.0	0	0	0	69	79
0	0.0	0	0.0	0	0.0	0	0	0	16	80

TABLE 3. (continued)
Residential Building Permits Issued in Virginia Localities, First Quarter, 1988

		Total Units Authorized		Total Mobile Units		Total Private Units		Single Units	
Line	Jurisdiction	Number	$000	Number	$000	Number	$000	Number	$000
	COUNTIES (continued)								
81	Scott	21	813.9	0	0.0	21	813.9	21	813.9
82	Shenandoah	78	3,960.3	0	0.0	74	3,960.3	65	3,554.8
83	Smyth	16	577.0	0	0.0	16	577.0	16	577.0
84	Southampton	75	2,016.5	21	185.3	54	1,831.2	18	1,266.2
85	Spotsylvania	273	24,017.3	0	0.0	273	24,017.3	251	23,466.8
86	Stafford	306	20,550.9	0	0.0	306	20,550.9	306	20,550.9
87	Surry	13	302.9	7	64.9	6	238.0	6	238.0
88	Sussex	72	1,272.3	13	254.2	59	1,018.1	3	178.1
89	Tazewell	23	888.0	0	0.0	23	888.0	18	792.0
90	Warren (RA)	—	—	—	—	—	—	—	—
91	Washington	52	1,910.2	0	0.0	52	1,910.2	48	1,871.8
92	Westmoreland	38	2,173.8	11	257.1	27	1,916.7	27	1,916.7
93	Wise[3]	12	464.9	0	0.0	12	464.9	12	464.9
94	Wythe	64	1,638.4	39	414.1	25	1,224.3	20	1,090.3
95	York	152	11,328.5	0	0.0	152	11,328.5	144	10,972.5
	CITIES								
96	Alexandria[1]	1	200.0	0	0.0	1	200.0	1	200.0
97	Bedford	8	308.0	1	NA	7	308.0	3	183.0
98	Bristol	4	133.0	0	0.0	4	133.0	4	133.0
99	Buena Vista	2	140.0	0	0.0	2	140.0	2	140.0
100	Charlottesville	58	2,416.0	0	0.0	58	2,416.0	6	431.0
101	Chesapeake	505	36,679.5	0	0.0	505	36,679.5	483	35,877.3
102	Clifton Forge[1]	0	0.0	0	0.0	0	0.0	0	0.0
103	Colonial Heights	15	1,008.8	0	0.0	15	1,008.8	15	1,008.8
104	Covington	0	0.0	0	0.0	0	0.0	0	0.0
105	Danville	13	1,007.0	0	0.0	13	1,007.0	11	965.0
106	Emporia	5	359.7	0	0.0	5	359.7	2	269.7
107	Fairfax	29	3,329.5	0	0.0	29	3,329.5	29	3,329.5
108	Falls Church	0	0.0	0	0.0	0	0.0	0	0.0
109	Franklin	11	886.0	0	0.0	11	886.0	9	847.0
110	Fredericksburg	7	225.6	0	0.0	7	225.6	7	225.6
111	Galax	8	205.0	2	NA	6	205.0	2	105.0
112	Hampton[1]	126	5,161.8	0	0.0	126	5,161.8	59	3,323.3
113	Harrisonburg	89	4,366.0	0	0.0	89	4,366.0	44	3,146.0
114	Hopewell	29	922.4	0	0.0	29	922.4	19	701.0
115	Lexington	3	257.0	0	0.0	3	257.0	3	257.0

Duplex Units		3–4 Units		5+ Units		Demolitions			Total Housing Units Less Number of Demolitions	Line
Number	$000	Number	$000	Number	$000	Private	Public	Total		
0	0.0	0	0.0	0	0.0	0	0	0	21	81
0	0.0	3	180.0	6	225.5	0	0	0	74	82
0	0.0	0	0.0	0	0.0	2	0	2	14	83
0	0.0	0	0.0	36	565.0	0	0	0	75	84
0	0.0	0	0.0	22	550.5	3	0	3	270	85
0	0.0	0	0.0	0	0.0	0	0	0	306	86
0	0.0	0	0.0	0	0.0	0	0	0	13	87
0	0.0	56	840.0	0	0.0	0	0	0	72	88
2	56.0	3	40.0	0	0.0	0	0	0	23	89
—	—	—	—	—	—	—	—	—	—	90
4	38.4	0	0.0	0	0.0	0	0	0	52	91
0	0.0	0	0.0	0	0.0	0	0	0	38	92
0	0.0	0	0.0	0	0.0	0	0	0	12	93
2	44.0	3	90.0	0	0.0	0	0	0	64	94
0	0.0	0	0.0	8	356.0	1	0	1	151	95
0	0.0	0	0.0	0	0.0	0	0	0	1	96
4	125	0	0.0	0	0.0	10	0	10	-2	97
0	0.0	0	0.0	0	0.0	6	0	6	-2	98
0	0.0	0	0.0	0	0.0	0	0	0	2	99
8	235.0	0	0.0	44	1,750.0	0	0	0	58	100
4	128.9	12	505.9	6	167.4	10	0	10	495	101
0	0.0	0	0.0	0	0.0	0	0	0	0	102
0	0.0	0	0.0	0	0.0	0	0	0	15	103
0	0.0	0	0.0	0	0.0	4	0	4	-4	104
2	42.0	0	0.0	0	0.0	10	0	10	3	105
0	0.0	3	90.0	0	0.0	3	0	3	2	106
0	0.0	0	0.0	0	0.0	0	0	0	29	107
0	0.0	0	0.0	0	0.0	0	0	0	0	108
2	39.0	0	0.0	0	0.0	1	0	1	10	109
0	0.0	0	0.0	0	0.0	0	0	0	7	110
4	100.0	0	0.0	0	0.0	0	0	0	8	111
0	0.0	0	0.0	67	1,838.5	13	0	13	113	112
2	70.0	35	980.0	8	170.0	1	0	1	88	113
2	61.4	8	160.0	0	0.0	7	0	7	22	114
0	0.0	0	0.0	0	0.0	0	0	0	3	115

TABLE 3. (continued)
Residential Building Permits Issued in Virginia Localities, First Quarter, 1988

		Total Units Authorized		Total Mobile Units		Total Private Units		Single Units	
Line	Jurisdiction	Number	$000	Number	$000	Number	$000	Number	$000
	CITIES (continued)								
116	Lynchburg	38	1,927.2	0	0.0	38	1,927.2	22	1,515.2
117	Manassas[1]	47	3,020.3	0	0.0	47	3,020.3	47	3,020.3
118	Manassas Park	0	0.0	0	0.0	0	0.0	0	0.0
119	Martinsville	14	504.5	0	0.0	14	504.5	7	345.0
120	Newport News	288	15,117.2	0	0.0	288	15,117.2	246	13,550.2
121	Norfolk	230	7,040.4	0	0.0	230	7,040.4	75	3,138.9
122	Norton (RA)	—	—	—	—	—	—	—	—
123	Petersburg[1]	5	193.0	0	0.0	5	193.0	5	193.0
124	Poquoson	18	1,790.0	0	0.0	18	1,790.0	18	1,790.0
125	Portsmouth	41	2,147.1	0	0.0	41	2,147.1	31	1,833.7
126	Radford	74	2,677.9	1	15.9	73	2,662.0	2	109.0
127	Richmond	47	2,598.4	0	0.0	47	2,598.4	39	2,126.4
128	Roanoke	61	1,870.3	0	0.0	61	1,870.3	17	966.6
129	Salem	17	1,202.6	0	0.0	17	1,202.6	17	1,202.6
130	South Boston	3	283.4	0	0.0	3	283.4	3	283.4
131	Staunton	10	858.0	0	0.0	10	858.0	10	858.0
132	Suffolk	110	7,227.5	0	0.0	110	7,227.5	89	6,694.5
133	Virginia Beach	892	58,422.7	0	0.0	892	58,422.7	736	52,593.1
134	Waynesboro	21	1,046.1	2	16.5	19	1,029.6	7	797.6
135	Williamsburg	8	1,272.9	0	0.0	8	1,272.9	8	1,272.9
136	Winchester	19	1,329.0	0	0.0	19	1,329.0	11	1,149.0
	PLANNING DISTRICTS								
137	LENOWISCO	48	1,805.9	0	0.0	48	1,805.9	48	1,805.9
138	Cumberland Plateau	42	1,781.5	0	0.0	42	1,781.5	37	1,685.5
139	Mount Rogers	196	6,208.6	59	596.2	137	5,612.4	124	5,340.0
140	New River Valley	320	12,186.2	25	15.9	295	12,170.3	127	7,172.2
141	Fifth	202	9,589.2	8	111.8	194	9,477.5	148	8,521.4
142	Central Shenandoah	322	18,669.9	3	17.3	319	18,652.6	220	16,108.6
143	Lord Fairfax	342	21,579.7	19	278.4	323	21,301.3	306	20,715.8
144	Northern Virginia	5,002	267,519.0	0	0.0	5,002	267,519.0	3,184	216,764.0
145	Rappahannock-Rapidan	237	27,692.9	9	33.4	228	27,659.5	218	27,144.3
146	Thomas Jefferson	362	25,850.1	9	234.0	353	25,616.1	286	22,505.7
147	Central Virginia	457	9,335.2	124	276.0	333	9,059.2	279	7,602.2
148	West Piedmont	265	17,521.7	0	0.0	265	17,521.7	246	17,122.2
149	Southside	152	4,259.7	93	1,143.1	59	3,116.5	57	3,096.5
150	Piedmont	175	5,051.3	94	1,057.5	81	3,993.7	81	3,993.7
151	Richmond Regional	2,916	132,185.4	0	0.0	2,916	132,185.4	1,733	106,327.9

Duplex Units		3–4 Units		5+ Units		Demolitions			Total Housing Units Less Number of Demolitions	
Number	$000	Number	$000	Number	$000	Private	Public	Total		Line
16	412.0	0	0.0	0	0.0	12	0	12	26	116
0	0.0	0	0.0	0	0.0	1	0	1	46	117
0	0.0	0	0.0	0	0.0	0	0	0	0	118
4	79.5	3	80.0	0	0.0	1	0	1	13	119
14	818.0	12	405.0	16	344.0	29	0	29	259	120
66	1,979.0	39	753.0	50	1,169.5	78	0	78	152	121
—	—	—	—	—	—	—	—	—	—	122
0	0.0	0	0.0	0	0.0	11	0	11	-6	123
0	0.0	0	0.0	0	0.0	1	0	1	17	124
10	313.3	0	0.0	0	0.0	3	0	3	38	125
0	0.0	9	385.0	62	2,168.0	13	0	13	61	126
0	0.0	8	472.0	0	0.0	24	0	24	23	127
22	513.7	4	80.0	18	310.0	6	0	6	55	128
0	0.0	0	0.0	0	0.0	2	0	2	15	129
0	0.0	0	0.0	0	0.0	0	0	0	3	130
0	0.0	0	0.0	0	0.0	2	0	2	8	131
6	176.0	15	357.0	0	0.0	11	0	11	99	132
22	1,623.0	8	326.0	126	3,880.7	21	0	21	871	133
0	0.0	12	232.0	0	0.0	4	0	4	17	134
0	0.0	0	0.0	0	0.0	6	0	6	2	135
0	0.0	0	0.0	8	180.0	10	0	10	9	136
0	0.0	0	0.0	0	0.0	0	0	0	48	137
2	56.0	3	40.0	0	0.0	0	0	0	42	138
10	182.4	3	90.0	0	0.0	8	0	8	188	139
10	304.0	28	745.0	130	3,949.1	15	0	15	305	140
24	566.1	4	80.0	18	310.0	18	0	18	184	141
2	70.0	47	1,212.0	50	1,262.0	8	0	8	314	142
0	0.0	3	180.0	14	405.5	12	0	12	330	143
0	0.0	16	538.0	1,802	50,216.9	2	0	2	5,000	144
6	380.0	4	135.3	0	0.0	1	0	1	236	145
10	285.0	0	0.0	57	2,825.4	1	0	1	361	146
22	582.0	0	0.0	32	875.0	52	0	52	405	147
6	121.5	13	278.0	0	0.0	11	0	11	254	148
2	20.0	0	0.0	0	0.0	0	0	0	152	149
0	0.0	0	0.0	0	0.0	1	0	1	174	150
0	0.0	8	472.0	1,175	25,385.5	39	0	39	2,877	151

TABLE 3. (continued)
Residential Building Permits Issued in Virginia Localities, First Quarter, 1988

		Total Units Authorized		Total Mobile Units		Total Private Units		Single Units	
Line	Jurisdiction	Number	$000	Number	$000	Number	$000	Number	$000
	PLANNING DISTRICTS (continued)								
152	RADCO	638	47,763.2	0	0.0	638	47,763.2	614	47,152.2
153	Northern Neck	158	9,802.6	35	596.1	123	9,206.5	123	9,206.5
154	Middle Peninsula	128	6,038.9	31	313.3	97	5,725.7	93	5,701.7
155	Crater	297	10,120.2	33	607.7	264	9,512.5	163	7,980.1
156	Southeastern Virginia	1,963	118,137.8	74	185.3	1,889	117,952.5	1,487	105,968.8
157	Peninsula	825	60,253.8	0	0.0	825	60,253.8	647	49,909.8
158	Accomack-Northampton	93	3,541.0	13	149.5	80	3,391.5	74	3,241.5
	METROPOLITAN STATISTICAL AREAS								
159	Bristol (Va. portion)	77	2,857.1	0	0.0	77	2,857.1	73	2,818.7
160	Charlottesville	279	20,262.7	9	234.0	270	20,028.7	205	16,968.3
161	Danville	80	4,595.3	0	0.0	80	4,595.3	74	4,485.3
162	Lynchburg	164	8,049.2	0	0.0	164	8,049.2	116	6,762.2
163	Norfolk	2,620	172,862.4	0	0.0	2,620	172,862.4	2,078	151,138.7
164	Northern Virginia	5,308	288,069.9	0	0.0	5,308	288,069.9	3,490	237,314.9
165	Richmond	3,102	139,755.0	0	0.0	3,102	139,755.0	1,877	113,295.1
166	Roanoke	185	9,134.4	0	0.0	185	9,134.4	139	8,178.3
167	TOTAL METROPOLITAN	11,815	645,586.0	9	234.0	11,806	645,352.0	8,052	540,961.5
168	TOTAL NON-METROPOLITAN	3,329	171,307.8	620	5,381.5	2,705	165,926.3	2,243	154,105.0
169	TOTAL COUNTIES	12,288	648,760.0	623	5,583.1	11,661	643,176.9	8,206	550,484.9
170	TOTAL CITIES	2,856	168,133.8	6	32.4	2,850	168,101.4	2,089	144,581.6
171	VIRGINIA	15,140	816,893.8	629	5,615.5	14,511	811,278.2	10,295	695,066.5

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[1] Reported 2 months.

[2] Reported 1 month.

[3] St. Paul Town did not report. The balance of Wise County reported 3 months.

NOTES: (RA) = reports annually; NA = data not available.

Duplex Units		3–4 Units		5+ Units		Demolitions			Total Housing Units Less Number of Demolitions	Line
Number	$000	Number	$000	Number	$000	Private	Public	Total		
2	60.5	0	0.0	22	550.5	3	0	3	635	152
0	0.0	0	0.0	0	0.0	3	0	3	155	153
4	24.0	0	0.0	0	0.0	8	0	8	120	154
34	442.4	67	1,090.0	0	0.0	21	0	21	276	155
110	4,259.2	74	1,941.9	218	5,782.6	129	0	129	1,834	156
16	890.0	39	5,054.5	123	4,399.5	51	0	51	774	157
6	150.0	0	0.0	0	0.0	0	0	0	93	158
4	38.4	0	0.0	0	0.0	6	0	6	71	159
8	235.0	0	0.0	57	2,825.4	1	0	1	278	160
2	42.0	4	68.0	0	0.0	10	0	10	70	161
16	412.0	0	0.0	32	875.0	40	0	40	124	162
124	5,110.2	113	6,996.4	305	9,617.1	174	0	174	2,446	163
0	0.0	16	538.0	1,802	50,216.9	2	0	2	5,306	164
34	442.4	16	632.0	1,175	25,385.5	57	0	57	3,045	165
24	566.1	4	80.0	18	310.0	14	0	14	171	166
212	6,846.1	153	8,314.4	3,389	89,229.9	304	0	304	11,511	167
54	1,547.0	156	3,542.3	252	6,732.1	79	0	79	3,246	168
78	1,677.3	141	7,030.8	3,236	83,983.9	83	0	83	12,201	169
188	6,715.8	168	4,825.9	405	11,978.1	300	0	300	2,556	170
266	8,393.1	309	11,856.7	3,641	95,962	383	0	383	14,757	171

TABLE 4.
Residential Building Permits Issued in Virginia Localities, Second Quarter, 1988

		Total Units Authorized		Total Mobile Units		Total Private Units		Single Units	
Line	Jurisdiction	Number	$000	Number	$000	Number	$000	Number	$000
	Counties								
1	Accomack	91	4,983.1	0	0.0	91	4,983.1	91	4,983.1
2	Albemarle	169	15,896.3	0	0.0	169	15,896.3	159	15,253.7
3	Alleghany (RA)	—	—	—	—	—	—	—	—
4	Amelia	36	1,257.4	20	354.8	16	902.6	16	902.6
5	Amherst	32	1,721.8	0	0.0	32	1,721.8	28	1,631.8
6	Appomattox	40	1,262.0	26	345.1	14	916.9	12	866.9
7	Arlington	507	34,191.6	0	0.0	507	34,191.6	68	5,138
8	Augusta	139	10,544.9	0	0.0	139	10,544.9	139	10,544.9
9	Bath[1]	10	734.2	0	0.0	10	734.2	10	734.2
10	Bedford	267	NA	144	NA	123	NA	123	NA
11	Bland	28	475.2	14	135.7	14	339.5	14	339.5
12	Botetourt (RA)	—	—	—	—	—	—	—	—
13	Brunswick	81	1,643.0	70	1,103.0	11	540.0	11	540.0
14	Buchanan	10	219.0	0	0.0	10	219.0	10	219.0
15	Buckingham	62	1,501.0	44	504.5	18	996.5	18	996.5
16	Campbell	81	5,247.7	0	0.0	81	5,247.7	79	5,222.7
17	Caroline	58	3,371.6	0	0.0	58	3,371.6	58	3,371.6
18	Carroll	40	2,447.5	0	0.0	40	2,447.5	34	2,172.5
19	Charles City	5	563.8	0	0.0	5	563.8	5	563.8
20	Charlotte	13	632.1	0	0.0	13	632.1	13	632.1
21	Chesterfield	1,136	64,981.3	0	0.0	1,136	64,981.3	871	56,969.5
22	Clarke	43	4,253.5	0	0.0	43	4,253.5	43	4,253.5
23	Craig	29	720.6	13	170.6	16	550.0	16	550.0
24	Culpeper	138	5,606.2	0	0.0	138	5,606.2	84	4,281.2
25	Cumberland	31	942.2	19	298.4	12	643.8	12	643.8
26	Dickenson (RA)	—	—	—	—	—	—	—	—
27	Dinwiddie	54	2,684.4	0	0.0	54	2,684.4	54	2,684.4
28	Essex	27	1,620.5	7	110.5	20	1,510.0	20	1,510.0
29	Fairfax	2,600	156,552.0	0	0.0	2,620	156,552.0	1,759	131,333.1
30	Fauquier[2]	58	7,631.4	0	0.0	58	7,631.4	58	7,631.4
31	Floyd	58	1,200.0	35	NA	23	1,200.0	23	1,200.0
32	Fluvanna	86	5,486.4	5	5.0	81	5,481.4	81	5,481.4
33	Franklin[1]	77	4,040.9	0	0.0	77	4,040.9	77	4,040.9
34	Frederick	197	13,078.0	0	0.0	197	13,078.0	197	13,078.0
35	Giles (RA)	—	—	—	—	—	—	—	—
36	Gloucester[3]	102	8,507.9	0	0.0	102	8,507.9	102	8,507.9
37	Goochland	63	5,365.9	0	0.0	63	5,365.9	63	5,365.9
38	Grayson	92	2,277.9	53	507.7	39	1,770.2	37	1,736.6
39	Greene	57	3,539.6	8	159.6	49	3,380.0	49	3,380.0
40	Greensville	12	187.6	11	142.6	1	45.0	1	45.0

Duplex Units		3–4 Units		5+ Units		Demolitions			Total Housing Units Less Number of Demolitions	Line
Number	$000	Number	$000	Number	$000	Private	Public	Total		
0	0.0	0	0.0	0	0.0	0	0	0	91	1
0	0.0	4	220.0	6	422.6	0	0	0	169	2
—	—	—	—	—	—	—	—	—	—	3
0	0.0	0	0.0	0	0.0	0	0	0	36	4
4	90.0	0	0.0	0	0.0	0	0	0	32	5
2	50.0	0	0.0	0	0.0	0	0	0	40	6
0	0.0	0	0.0	439	29,053.1	34	0	34	473	7
0	0.0	0	0.0	0	0.0	2	0	2	137	8
0	0.0	0	0.0	0	0.0	22	0	22	-12	9
0	0.0	0	0.0	0	0.0	0	0	0	267	10
0	0.0	0	0.0	0	0.0	0	0	0	28	11
—	—	—	—	—	—	—	—	—	—	12
0	0.0	0	0.0	0	0.0	0	0	0	81	13
0	0.0	0	0.0	0	0.0	1	0	1	9	14
0	0.0	0	0.0	0	0.0	0	0	0	62	15
2	25.0	0	0.0	0	0.0	4	0	4	77	16
0	0.0	0	0.0	0	0.0	0	0	0	58	17
6	275.0	0	0.0	0	0.0	0	0	0	40	18
0	0.0	0	0.0	0	0.0	0	0	0	5	19
0	0.0	0	0.0	0	0.0	0	0	0	13	20
0	0.0	0	0.0	265	8,011.7	0	0	0	1,136	21
0	0.0	0	0.0	0	0.0	0	0	0	43	22
0	0.0	0	0.0	0	0.0	0	0	0	29	23
0	0.0	8	137.0	46	1,188.0	1	0	1	137	24
0	0.0	0	0.0	0	0.0	0	0	0	31	25
—	—	—	—	—	—	—	—	—	—	26
0	0.0	0	0.0	0	0.0	0	0	0	54	27
0	0.0	0	0.0	0	0.0	0	0	0	27	28
0	0.0	16	610.7	845	24,608.2	14	0	14	2,606	29
0	0.0	0	0.0	0	0.0	0	0	0	58	30
0	0.0	0	0.0	0	0.0	0	0	0	58	31
0	0.0	0	0.0	0	0.0	0	0	0	86	32
0	0.0	0	0.0	0	0.0	1	0	1	76	33
0	0.0	0	0.0	0	0.0	0	0	0	197	34
—	—	—	—	—	—	—	—	—	—	35
0	0.0	0	0.0	0	0.0	0	0	0	102	36
0	0.0	0	0.0	0	0.0	0	0	0	63	37
2	33.6	0	0.0	0	0.0	0	0	0	92	38
0	0.0	0	0.0	0	0.0	0	0	0	57	39
0	0.0	0	0.0	0	0.0	0	0	0	12	40

TABLE 4. (continued)
Residential Building Permits Issued in Virginia Localities, Second Quarter, 1988

Line	Jurisdiction	Total Units Authorized		Total Mobile Units		Total Private Units		Single Units	
		Number	$000	Number	$000	Number	$000	Number	$000
	COUNTIES (continued)								
41	Halifax	69	1,777.2	47	680.1	22	1,097.1	22	1,097.1
42	Hanover	368	21,432.1	0	0.0	368	21,432.1	368	21,432.1
43	Henrico	689	37,352.7	0	0.0	689	37,352.7	646	36,080.2
44	Henry	48	2,989.5	0	0.0	48	2,989.5	42	2,869.5
45	Highland	13	179.7	9	104.7	4	75.0	4	75.0
46	Isle of Wight	160	6,079.0	78	NA	82	6,079.0	82	6,079.0
47	James City	245	27,298.5	0	0.0	245	27,298.5	193	23,788.5
48	King and Queen[2]	0	0.0	0	0.0	0	0.0	0	0.0
49	King George (RA)	—	—	—	—	—	—	—	—
50	King William	45	2,461.9	0	0.0	45	2,461.9	45	2,461.9
51	Lancaster	48	3,601.9	9	225.2	39	3,376.7	37	3,341.7
52	Lee	27	924.1	0	0.0	27	924.1	27	924.1
53	Loudoun	646	42,018.3	0	0.0	646	42,018.3	572	39,771.7
54	Louisa	136	5,955.4	0	0.0	136	5,955.4	136	5,955.4
55	Lunenburg	46	885.9	38	436.7	8	449.2	8	449.2
56	Madison	40	2,439.9	4	28.8	36	2,411.1	32	2,276.1
57	Mathews[2]	22	0.0	3	0.0	19	0.0	19	0.0
58	Mecklenburg	33	1,759.5	0	0.0	33	1,759.5	33	1,759.5
59	Middlesex	49	2,828.0	16	218.0	33	2,610.0	33	2,610.0
60	Montgomery	147	7,922.4	0	0.0	147	7,922.4	116	6,831.7
61	Nelson	36	1,789.0	0	0.0	36	1,789.0	24	1,408.5
62	New Kent	53	3,035.0	0	0.0	53	3,035.0	53	3,035.0
63	Northampton	34	1,500.5	15	142.6	19	1,357.9	19	1,357.9
64	Northumberland	86	5,789.7	21	288.4	65	5,501.3	65	5,501.3
65	Nottoway	26	550.6	17	147.3	9	403.3	9	403.3
66	Orange	88	5,675.3	12	NA	76	5,675.3	76	5,675.3
67	Page	80	3,070.1	25	363.6	55	2,706.5	55	2,706.5
68	Patrick (RA)	—	—	—	—	—	—	—	—
69	Pittsylvania	112	5,739.2	0	0.0	112	5,739.2	107	5,584.2
70	Powhatan	77	5,054.0	0	0.0	77	5,054.0	77	5,054.0
71	Prince Edward	71	2,329.4	23	296.1	48	2,033.3	9	739.7
72	Prince George	48	3,168.6	0	0.0	48	3,168.6	48	3,168.6
73	Prince William	1,210	75,849.0	0	0.0	1,210	75,849.0	1,085	72,062.7
74	Pulaski[4]	46	1,800.9	0	0.0	46	1,800.9	24	1,280.9
75	Rappahannock	19	2,476.0	1	10.0	18	2,466.0	18	2,466.0
76	Richmond	35	722.4	21	258.6	14	463.8	9	411.8
77	Roanoke	157	8,790.4	0	0.0	157	8,790.4	109	6,269.8
78	Rockbridge (RA)	—	—	—	—	—	—	—	—
79	Rockingham	191	13,362.7	0	0.0	191	13,362.7	169	12,876.7
80	Russell	17	759.0	0	0.0	17	759.0	17	759.0

Duplex Units		3–4 Units		5+ Units		Demolitions			Total Housing Units Less Number of Demolitions	Line
Number	$000	Number	$000	Number	$000	Private	Public	Total		
0	0.0	0	0.0	0	0.0	0	0	0	69	41
0	0.0	0	0.0	0	0.0	1	0	1	367	42
0	0.0	12	355.5	31	917.0	21	0	21	668	43
2	65.0	4	55.0	0	0.0	0	0	0	48	44
0	0.0	0	0.0	0	0.0	0	0	0	13	45
0	0.0	0	0.0	0	0.0	8	0	8	152	46
4	182.0	11	631.0	37	2,697.0	4	0	4	241	47
0	0.0	0	0.0	0	0.0	0	0	0	0	48
—	—	—	—	—	—	—	—	—	—	49
0	0.0	0	0.0	0	0.0	2	0	2	43	50
2	35.0	0	0.0	0	0.0	2	0	2	46	51
0	0.0	0	0.0	0	0.0	0	0	0	27	52
2	69.8	0	0.0	72	2,176.8	0	0	0	646	53
0	0.0	0	0.0	0	0.0	0	0	0	136	54
0	0.0	0	0.0	0	0.0	0	0	0	46	55
0	0.0	4	135.0	0	0.0	0	0	0	40	56
0	0.0	0	0.0	0	0.0	0	0	0	22	57
0	0.0	0	0.0	0	0.0	0	0	0	33	58
0	0.0	0	0.0	0	0.0	0	0	0	49	59
14	570.7	0	0.0	17	520.0	2	0	2	145	60
4	123.3	8	257.1	0	0.0	1	0	1	35	61
0	0.0	0	0.0	0	0.0	2	0	2	51	62
0	0.0	0	0.0	0	0.0	0	0	0	34	63
0	0.0	0	0.0	0	0.0	0	0	0	86	64
0	0.0	0	0.0	0	0.0	1	0	1	25	65
0	0.0	0	0.0	0	0.0	0	0	0	88	66
0	0.0	0	0.0	0	0.0	0	0	0	80	67
—	—	—	—	—	—	—	—	—	—	68
0	0.0	0	0.0	5	155.0	0	0	0	112	69
0	0.0	0	0.0	0	0.0	0	0	0	77	70
0	0.0	0	0.0	39	1,293.6	0	0	0	71	71
0	0.0	0	0.0	0	0.0	0	0	0	48	72
0	0.0	0	0.0	125	3,786.3	7	0	7	1,203	73
0	0.0	4	80.0	18	440.0	4	0	4	42	74
0	0.0	0	0.0	0	0.0	0	0	0	19	75
2	52.0	3	NA	0	0.0	0	0	0	35	76
0	0.0	0	0.0	48	2,520.6	2	0	2	155	77
—	—	—	—	—	—	—	—	—	—	78
2	120.0	4	110.0	16	256.0	0	0	0	191	79
0	0.0	0	0.0	0	0.0	0	0	0	17	80

TABLE 4. (continued)
Residential Building Permits Issued in Virginia Localities, Second Quarter, 1988

		Total Units Authorized		Total Mobile Units		Total Private Units		Single Units	
Line	Jurisdiction	Number	$000	Number	$000	Number	$000	Number	$000
	COUNTIES (continued)								
81	Scott	28	978.5	0	0.0	28	978.5	28	978.5
82	Shenandoah	149	7,584.8	0	0.0	149	7,584.8	91	5,907.7
83	Smyth	39	1,376.0	0	0.0	39	1,376.0	35	1,282.0
84	Southampton	44	1,428.9	31	486.1	13	942.8	13	942.8
85	Spotsylvania	450	41,176.4	0	0.0	450	41,176.4	450	41,176.4
86	Stafford	356	24,753.0	0	0.0	356	24,753.0	356	24,753.0
87	Surry	33	1,163.4	13	77.2	20	1,086.2	20	1,086.2
88	Sussex	29	581.2	23	295.2	6	286.0	6	286.0
89	Tazewell	39	1,839.7	0	0.0	39	1,839.7	39	1,839.7
90	Warren (RA)	—	—	—	—	—	—	—	—
91	Washington	72	9,711.2	0	0.0	72	9,711.2	62	9,011.7
92	Westmoreland	65	3,658.2	26	852.4	39	2,805.8	39	2,805.8
93	Wise[5]	30	1,270.7	0	0.0	30	1,270.7	28	1,120.7
94	Wythe	105	2,649.7	73	633.5	32	2,016.2	32	2,016.2
95	York	198	12,595.0	0	0.0	198	12,595.0	152	10,910.0
	CITIES								
96	Alexandria[3]	280	14,830.0	0	0.0	280	14,830.0	3	330.0
97	Bedford	5	192.0	1	NA	4	192.0	4	192.0
98	Bristol	13	665.5	0	0.0	13	665.5	13	665.5
99	Buena Vista	6	238.0	0	0.0	6	238.0	6	238.0
100	Charlottesville[1]	32	4,994.0	0	0.0	32	4,994.0	6	254.0
101	Chesapeake	561	55,324.6	0	0.0	561	55,324.6	551	54,972.1
102	Clifton Forge[1]	0	0.0	0	0.0	0	0.0	0	0.0
103	Colonial Heights	22	1,831.6	0	0.0	22	1,831.6	22	1,831.6
104	Covington	0	0.0	0	0.0	0	0.0	0	0.0
105	Danville	10	816.5	0	0.0	10	816.5	10	816.5
106	Emporia	4	125.0	0	0.0	4	125.0	1	25.0
107	Fairfax	2	247.0	0	0.0	2	247.0	2	247.0
108	Falls Church[1]	0	0.0	0	0.0	0	0.0	0	0.05
109	Franklin	5	482.0	0	0.0	5	482.0	5	482.0
110	Fredericksburg	61	2,181.8	0	0.0	61	2,181.8	61	2,181.8
111	Galax	0	0.0	0	NA	0	0.0	0	0.0
112	Hampton	424	20,551.3	0	0.0	424	20,551.3	327	17,570.4
113	Harrisonburg	117	6,998.3	0	0.0	117	6,998.3	81	6,310.3
114	Hopewell	8	363.1	0	0.0	8	363.1	8	363.1
115	Lexington	9	354.0	0	0.0	9	354.0	3	139.0

Duplex Units		3–4 Units		5+ Units		Demolitions			Total Housing Units Less Number of Demolitions	Line
Number	$000	Number	$000	Number	$000	Private	Public	Total		
0	0.0	0	0.0	0	0.0	0	0	0	28	81
2	28.0	0	0.0	56	1,649.2	4	0	4	145	82
0	0.0	4	94.0	0	0.0	4	0	4	35	83
0	0.0	0	0.0	0	0.0	0	0	0	44	84
0	0.0	0	0.0	0	0.0	0	0	0	450	85
0	0.0	0	0.0	0	0.0	2	0	2	354	86
0	0.0	0	0.0	0	0.0	2	0	2	31	87
0	0.0	0	0.0	0	0.0	0	0	0	29	88
0	0.0	0	0.0	0	0.0	0	0	0	39	89
—	—	—	—	—	—	—	—	—	—	90
0	0.0	0	0.0	10	699.5	0	0	0	72	91
0	0.0	0	0.0	0	0.0	0	0	0	65	92
2	150.0	0	0.0	0	0.0	0	0	0	30	93
0	0.0	0	0.0	0	0.0	0	0	0	105	94
0	0.0	0	0.0	46	1,685.0	10	0	10	188	95
0	0.0	0	0.0	277	14,500.0	0	0	0	280	96
0	0.0	0	0.0	0	0.0	7	0	7	-2	97
0	0.0	0	0.0	0	0.0	5	0	5	8	98
0	0.0	0	0.0	0	0.0	0	0	0	6	99
4	140.0	0	0.0	22	4,600	2	0	2	30	100
0	1.8	0	0.0	10	350.7	29	0	29	532	101
0	0.0	0	0.0	0	0.0	0	0	0	0	102
0	0.0	0	0.0	0	0.0	7	0	7	15	103
0	0.0	0	0.0	0	0.0	2	0	2	-2	104
0	0.0	0	0.0	0	0.0	23	0	23	-13	105
0	0.0	3	100.0	0	0.0	4	0	4	0	106
0	0.0	0	0.0	0	0.0	1	0	1	1	107
0	0.0	0	0.0	0	0.0	0	0	0	0	108
0	0.0	0	0.0	0	0.0	0	0	0	5	109
0	0.0	0	0.0	0	0.0	5	0	5	56	110
0	0.0	0	0.0	0	0.0	0	0	0	0	111
0	0.0	0	0.0	97	2,980.9	22	0	22	402	112
2	120.0	27	393.0	7	175.0	13	0	13	104	113
0	0.0	0	0.0	0	0.0	9	0	9	-1	114
6	215.0	0	0.0	0	0.0	0	0	0	9	115

TABLE 4. (continued)
Residential Building Permits Issued in Virginia Localities, Second Quarter, 1988

		Total Units Authorized		Total Mobile Units		Total Private Units		Single Units	
Line	Jurisdiction	Number	$000	Number	$000	Number	$000	Number	$000
	CITIES (continued)								
116	Lynchburg	75	3,269.9	0	0.0	75	3,269.9	27	2,469.9
117	Manassas	114	6,900.8	0	0.0	114	6,900.8	114	6,900.8
118	Manassas Park	0	0.0	0	0.0	0	0.0	0	0.0
119	Martinsville	23	773.0	0	0.0	23	773.0	5	353.0
120	Newport News	438	27,700.2	0	0.0	438	27,700.2	319	17,295.2
121	Norfolk	188	6,522.5	0	0.0	188	6,522.5	63	3,149.4
122	Norton (RA)	—	—	—	—	—	—	—	—
123	Petersburg	19	569.0	0	0.0	19	569.0	15	509.0
124	Poquoson	22	2,036.9	0	0.0	22	2,036.9	22	2,036.9
125	Portsmouth	64	3,984.9	0	0.0	64	3,984.9	62	3,915.1
126	Radford	106	3,605.0	1	2.0	105	3,603.0	21	1,161.0
127	Richmond	50	4,564.9	0	0.0	50	4,564.9	48	4,512.4
128	Roanoke[3]	30	806.5	0	0.0	30	806.5	22	622.5
129	Salem[1]	16	1,075.9	0	0.0	16	1,075.9	16	1,075.9
130	South Boston	3	212.6	0	0.0	3	212.6	3	212.6
131	Staunton	14	858.0	0	0.0	14	858.0	14	858.0
132	Suffolk[1]	72	5,030.9	0	0.0	72	5,030.9	48	3,999.2
133	Virginia Beach	1,583	87,087.3	0	0.0	1,583	87,087.3	925	66,317.3
134	Waynesboro	19	691.2	1	4.5	18	686.8	11	516.7
135	Williamsburg	13	1,570.9	0	0.0	13	1,570.9	9	1,266.0
136	Winchester	101	3,298.5	0	0.0	101	3,298.5	23	1,596.5
	PLANNING DISTRICTS								
137	LENOWISCO	85	3,173.3	0	0.0	85	3,173.3	83	3,023.3
138	Cumberland Plateau	66	2,817.7	0	0.0	66	2,817.7	66	2,817.7
139	Mount Rogers	389	19,603.0	140	1,276.9	249	18,326.1	227	17,224.0
140	New River Valley	357	14,528.3	36	2.0	321	14,526.3	184	10,473.6
141	Fifth	232	11,393.4	13	170.6	219	11,222.8	163	8,518.2
142	Central Shenandoah	518	33,961.0	10	109.2	508	33,851.9	437	32,292.8
143	Lord Fairfax	570	31,284.9	25	363.6	545	30,921.3	409	27,542.2
144	Northern Virginia	5,379	330,588.7	0	0.0	5,379	330,588.7	3,603	255,783.7
145	Rappahannock-Rapidan	343	23,828.8	17	38.8	326	23,790.0	268	22,330.0
146	Thomas Jefferson	516	37,660.7	13	164.6	503	37,496.1	455	31,733.0
147	Central Virginia	500	11,693.4	171	345.1	329	11,348.3	273	10,383.3
148	West Piedmont	270	14,359.1	0	0.0	270	14,359.1	241	13,664.1
149	Southside	186	5,392.3	117	1,783.1	69	3,609.2	69	3,609.2
150	Piedmont	285	8,098.6	161	2,037.8	124	6,060.8	85	4,767.2
151	Richmond Regional	2,441	142,349.7	0	0.0	2,441	142,349.7	2,131	133,012.9

Duplex Units		3–4 Units		5+ Units		Demolitions			Total Housing Units Less Number of Demolitions	
Number	$000	Number	$000	Number	$000	Private	Public	Total		Line
0	0.0	0	0.0	48	800.0	21	0	21	54	116
0	0.0	0	0.0	0	0.0	3	0	3	111	117
0	0.0	0	0.0	0	0.0	1	0	1	-1	118
12	270.0	0	0.0	6	150.0	13	0	13	10	119
0	0.0	12	405.0	107	10,000.0	19	0	19	419	120
58	2,004.9	20	270.2	47	1,098.0	37	0	37	151	121
—	—	—	—	—	—	—	—	—	—	122
4	60.0	0	0.0	0	0.0	28	0	28	-9	123
0	0.0	0	0.0	0	0.0	0	0	0	22	124
2	69.8	0	0.0	0	0.0	17	0	17	47	125
0	0.0	4	165.0	80	2,277.0	13	0	13	93	126
2	52.6	0	0.0	0	0.0	28	0	28	22	127
8	184.0	0	0.0	0	0.0	16	0	16	14	128
0	0.0	0	0.0	0	0.0	4	0	4	12	129
0	0.0	0	0.0	0	0.0	0	0	0	3	130
0	0.0	0	0.0	0	0.0	0	0	0	14	131
6	214.0	4	181.7	14	636.0	11	0	11	61	132
40	2,851.0	27	1,850.0	591	16,069.0	26	0	26	1,557	133
0	0.0	7	170.0	0	0.0	2	0	2	17	134
0	0.0	4	304.9	0	0.0	1	0	1	12	135
0	0.0	8	160.0	70	1,542.0	6	0	6	95	136
2	150.0	0	0.0	0	0.0	0	0	0	85	137
0	0.0	0	0.0	0	0.0	1	0	1	65	138
8	308.6	4	94.0	10	699.5	9	0	9	380	139
14	570.7	8	245.0	115	3,237.0	19	0	19	338	140
8	184.0	0	0.0	48	2,520.6	24	0	24	208	141
10	455.0	38	673.0	23	431.0	39	0	39	479	142
2	28.0	8	160.0	126	3,191.2	10	0	10	560	143
2	69.8	16	610.7	1,758	74,124.4	60	0	60	5,319	144
0	0.0	12	272.0	46	1,188.0	1	0	1	342	145
8	263.3	12	477.1	28	5,022.6	3	0	3	513	146
8	165.0	0	0.0	48	800.0	32	0	32	468	147
14	335.0	4	55.0	11	305.0	37	0	37	233	148
0	0.0	0	0.0	0	0.0	0	0	0	186	149
0	0.0	0	0.0	39	1,293.6	1	0	1	284	150
2	52.6	12	355.5	296	8,928.7	52	0	52	2,389	151

TABLE 4. (continued)
Residential Building Permits Issued in Virginia Localities, Second Quarter, 1988

		Total Units Authorized		Total Mobile Units		Total Private Units		Single Units	
Line	Jurisdiction	Number	$000	Number	$000	Number	$000	Number	$000
	PLANNING DISTRICTS (continued)								
152	RADCO	925	71,482.8	0	0.0	925	71,482.8	925	71,482.8
153	Northern Neck	234	13,772.2	77	1,624.6	157	12,147.6	150	12,060.6
154	Middle Peninsula	245	15,418.3	26	328.5	219	15,089.8	219	15,089.8
155	Crater	229	10,673.9	47	515.0	182	10,158.9	175	9,998.9
156	Southeastern Virginia	2,677	165,940.1	109	486.1	2,568	165,454.0	1,749	139,856.9
157	Peninsula	1,340	91,752.8	0	0.0	1,340	91,752.8	1,022	72,867.0
158	Accomack-Northampton	125	6,483.6	15	142.6	110	6,341.0	110	6,341.0
	METROPOLITAN STATISTICAL AREAS								
159	Bristol (Va. portion)	113	11,355.2	0	0.0	113	11,355.2	103	10,655.7
160	Charlottesville	344	29,916.3	13	164.6	331	29,751.7	295	24,369.1
161	Danville	122	6,555.7	0	0.0	122	6,555.7	117	6,400.7
162	Lynchburg	188	10,239.4	0	0.0	188	10,239.4	134	9,324.4
163	Norfolk	3,910	258,210.9	0	0.0	3,910	258,210.9	2,773	213,728.0
164	Northern Virginia	5,735	355,341.7	0	0.0	5,735	355,341.7	3,959	280,536.7
165	Richmond	2,592	150,966.4	0	0.0	2,592	150,966.4	2,278	141,569.6
166	Roanoke	203	10,672.8	0	0.0	203	10,672.8	147	7,968.2
167	TOTAL METROPOLITAN	13,207	833,258.4	13	164.6	13,194	833,093.8	9,806	694,552.4
168	TOTAL NON-METROPOLITAN	4,705	232,998.2	964	9,223.9	3,741	223,774.4	3,238	210,319.8
169	TOTAL COUNTIES	13,403	795,503.0	974	9,382.0	12,429	786,121.0	10,174	699,486.5
170	TOTAL CITIES	4,509	270,753.6	3	6.5	4,506	270,747.2	2,870	205,385.7
171	VIRGINIA	17,912	1,066,256.6	977	9,388.5	16,935	1,056,868.2	13,044	904,872.2

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[1] Reported 5 months.
[2] Reported 3 months.
[3] Reported 4 months.
[4] Dublin Town reported 4 months. The balance of Pulaski County reported 6 months.
[5] St. Paul Town did not report. The balance of Wise County reported 6 months.

NOTES: (RA) = reports annually; NA = data not available.
The data reported by the Census Bureau are cumulative monthly totals indicating how many months were reported, but not which months. Consequently, notes here concerning number of months reported apply to the first half of the year, not specifically to the second quarter.

Duplex Units		3–4 Units		5+ Units		Demolitions			Total Housing Units Less Number of Demolitions	Line
Number	$000	Number	$000	Number	$000	Private	Public	Total		
0	0.0	0	0.0	0	0.0	7	0	7	918	152
4	87.0	3	0.0	0	0.0	2	0	2	232	153
0	0.0	0	0.0	0	0.0	2	0	2	243	154
4	60.0	3	100.0	0	0.0	50	0	50	179	155
106	5,141.5	51	2,301.9	662	18,153.7	128	0	128	2,549	156
4	182.0	27	1,340.9	287	17,362.9	56	0	56	1,284	157
0	0.0	0	0.0	0	0.0	0	0	0	125	158
0	0.0	0	0.0	10	699.5	5	0	5	108	159
4	140	4	220.0	28	5,022.6	2	0	2	342	160
0	0.0	0	0.0	5	155.0	23	0	23	99	161
6	115.0	0	0.0	48	800.0	25	0	25	163	162
110	5,323.5	78	3,642.8	949	35,516.6	176	0	176	3,734	163
2	69.8	16	610.7	1,758	74,124.4	62	0	62	5,673	164
6	112.6	12	355.5	296	8,928.7	96	0	96	2,496	165
8	184.0	0	0.0	48	2,520.6	22	0	22	181	166
136	5,944.9	110	4,829.0	3,142	127,767.4	411	0	411	12,796	167
60	2,107.6	88	1,856.1	355	9,490.8	122	0	122	4,583	168
52	1,869.4	82	2,685.3	2,121	82,079.6	158	0	158	13,245	169
144	6,183.1	116	3,999.8	1,376	55,178.6	375	0	375	4,134	170
196	8,052.5	198	6,685.1	3,497	137,258.2	533	0	533	17,379	171

TABLE 5.
First-Quarter Residential Building Permits, 1980–88

	1988	1987	1986	1985	1984	1983	1982	1981	1980
COUNTIES									
Accomack	63	53	108	96	80	44	50	35	48
Albemarle	119	118	107	179	205	154	95	146	85
Alleghany	NA	18	20	17	6	15	NA	NA	47
Amelia	35	NA	NA	18	18	11	4	16	6
Amherst	19	18	97	56	43	43	37	41	53
Appomattox	34	22	NA	31	28	24	24	16	21
Arlington	367	505	470	59	51	370	144	287	62
Augusta	120	95	117	121	98	84	218	93	83
Bath	3	2	18	6	3	NA	NA	NA	NA
Bedford	251	202	NA	NA	85	95	27	76	122
Bland	11	14	15	14	NA	NA	NA	NA	NA
Botetourt	NA	24	NA	38	26	23	10	33	45
Brunswick	54	42	NA	35	27	24	42	31	32
Buchanan	3	6	39	43	55	35	50	64	42
Buckingham	42	NA	NA	23	NA	NA	NA	NA	NA
Campbell	107	32	96	184	131	83	90	149	109
Caroline	52	33	71	36	45	33	25	28	46
Carroll	16	21	61	42	53	31	30	41	46
Charles City	13	3	1	1	NA	5	NA	9	NA
Charlotte	10	11	14	23	18	1	NA	4	4
Chesterfield	794	765	935	914	720	832	322	851	764
Clarke	31	36	17	11	9	2	3	11	5
Craig	17	13	NA	9	NA	NA	NA	NA	NA
Culpeper	38	22	33	1	27	28	8	43	23
Cumberland	14	NA	NA	8	NA	7	8	6	6
Dickenson	NA	NA	NA	NA	44	38	50	38	50
Dinwiddie	87	28	48	27	41	37	24	45	22
Essex	14	NA	NA	NA	NA	12	13	7	14
Fairfax	3,178	1,892	2,470	2,404	2,647	1,819	770	1,352	1,147
Fauquier	97	155	157	152	144	92	27	53	64
Floyd	35	15	NA	16	4	6	10	3	13
Fluvanna	72	40	NA	38	28	18	14	13	30
Franklin	118	75	116	159	177	52	67	47	45
Frederick	172	245	96	113	103	54	35	46	60
Giles	NA	30	33	18	NA	NA	NA	NA	NA
Gloucester	17	45	104	121	94	133	89	98	69
Goochland	43	33	44	40	26	35	19	17	23
Grayson	25	17	26	31	35	20	23	21	29
Greene	30	NA	NA	41	38	19	18	29	37
Greensville	21	19	NA	4	NA	NA	NA	20	16

TABLE 5. (continued)
First-Quarter Residential Building Permits, 1980–88

	1988	1987	1986	1985	1984	1983	1982	1981	1980
COUNTIES (continued)									
Halifax	74	55	79	91	62	34	7	50	33
Hanover	294	244	303	166	129	105	52	73	87
Henrico	1,635	749	614	415	561	428	213	713	220
Henry	53	39	106	139	117	129	59	112	119
Highland	5	NA	NA	1	5	9	8	7	7
Isle of Wight	99	135	99	NA	NA	81	22	11	29
James City	233	294	NA	263	209	128	122	61	80
King and Queen	8	NA	NA	NA	NA	12	8	10	4
King George	NA	51	43	47	21	15	17	26	18
King William	28	26	4	19	13	15	12	13	23
Lancaster	39	26	22	24	100	22	15	18	18
Lee	15	19	40	48	53	NA	NA	NA	13
Loudoun	427	381	421	291	378	161	46	59	42
Louisa	22	48	61	17	36	51	38	46	36
Lunenburg	22	NA	NA	14	NA	NA	NA	NA	NA
Madison	27	26	20	16	NA	15	7	10	11
Mathews	18	NA	NA	NA	24	11	4	13	19
Mecklenburg	21	21	70	36	56	45	39	51	45
Middlesex	43	NA	NA	NA	NA	15	17	24	16
Montgomery	158	385	56	51	46	33	22	29	84
Nelson	61	21	79	28	29	24	21	35	25
New Kent	39	45	38	34	35	38	10	29	19
Northampton	30	NA	NA	14	9	18	16	10	9
Northumberland	61	38	37	19	NA	28	28	27	25
Nottoway	25	NA	NA	16	NA	NA	NA	NA	NA
Orange	55	63	NA	72	47	39	23	28	24
Page	46	70	31	37	15	39	23	34	27
Patrick	NA	38	NA	34	88	32	27	47	35
Pittsylvania	67	61	159	142	158	137	112	145	155
Powhatan	51	32	40	33	28	18	12	20	19
Prince Edward	27	NA	NA	28	NA	13	16	28	11
Prince George	50	44	39	23	45	37	30	43	22
Prince William	953	1,425	811	480	487	584	240	425	212
Pulaski	53	39	72	48	51	38	33	70	54
Rappahannock	20	22	NA	14	NA	5	8	13	14
Richmond	20	15	15	10	NA	7	7	10	8
Roanoke	107	135	154	136	160	116	58	137	78
Rockbridge	NA	NA	16	30	38	28	18	12	15
Rockingham	69	189	111	119	122	64	56	112	126
Russell	16	4	55	53	59	18	82	65	59

TABLE 5. (continued)
First-Quarter Residential Building Permits, 1980–88

	1988	1987	1986	1985	1984	1983	1982	1981	1980
COUNTIES (continued)									
Scott	21	10	30	93	45	52	39	50	NA
Shenandoah	74	74	67	45	44	30	32	33	44
Smyth	16	18	48	42	47	51	20	109	43
Southampton	75	41	48	29	21	20	12	24	20
Spotsylvania	273	322	327	232	170	122	55	87	58
Stafford	306	202	169	129	NA	121	32	129	76
Surry	13	22	20	29	NA	NA	NA	NA	NA
Sussex	72	31	30	20	NA	NA	NA	NA	NA
Tazewell	23	19	79	95	81	155	127	79	91
Warren	NA	57	40	42	NA	28	6	27	32
Washington	52	58	124	76	82	73	109	70	1
Westmoreland	38	67	18	45	25	19	10	10	8
Wise	12	13	71	69	58	51	39	60	47
Wythe	64	50	62	106	NA	46	34	55	35
York	152	184	249	103	71	75	38	45	39
CITIES									
Alexandria	1	761	NA	NA	87	12	36	57	71
Bedford	8	8	NA	1	NA	2	1	7	4
Bristol	4	14	22	15	10	5	6	15	17
Buena Vista	2	0	2	3	NA	NA	NA	NA	NA
Charlottesville	58	64	29	13	87	59	9	14	47
Chesapeake	505	639	656	852	545	241	105	125	61
Clifton Forge	0	0	0	0	0	NA	NA	NA	NA
Colonial Heights	15	31	13	20	22	22	2	15	10
Covington	0	0	0	5	NA	NA	NA	NA	NA
Danville	13	5	8	21	15	8	3	14	17
Emporia	5	1	NA	1	0	1	1	2	42
Fairfax	29	52	15	41	5	2	4	2	0
Falls Church	0	0	1	0	0	0	0	7	5
Franklin	11	2	NA	26	8	3	0	1	3
Fredericksburg	7	1	308	0	11	7	5	0	0
Galax	8	NA	10	4	NA	NA	NA	NA	NA
Hampton	126	265	905	413	124	144	45	92	129
Harrisonburg	89	120	141	53	5[illegible]	52	6	23	48
Hopewell	29	8	12	25	21	5	0	8	26
Lexington	3	NA	0	7	0	NA	NA	NA	NA
Lynchburg	38	157	38	26	21	27	19	48	37
Manassas	47	291	184	0	0	35	28	14	32
Manassas Park	0	37	34	25	17	0	5	0	0
Martinsville	14	16	16	2	1	8	2	3	15
Newport News	288	641	775	700	350	267	80	96	53

TABLE 5. (continued)
First-Quarter Residential Building Permits, 1980–88

	1988	1987	1986	1985	1984	1983	1982	1981	1980
CITIES (continued)									
Norfolk	230	566	459	232	391	295	189	170	77
Norton	NA	5	6	8	7	5	7	7	7
Petersburg	5	6	17	6	9	10	10	20	14
Poquoson	18	18	27	17	37	33	17	14	8
Portsmouth	41	53	436	86	50	85	86	35	57
Radford	74	138	36	64	56	17	20	2	3
Richmond	47	41	77	148	29	36	29	47	211
Roanoke	61	177	31	4	30	45	110	15	22
Salem	17	24	32	29	49	8	6	22	20
South Boston	3	3	3	5	NA	NA	NA	NA	NA
Staunton	10	NA	15	96	13	22	4	9	116
Suffolk	110	114	169	181	94	91	19	19	18
Virginia Beach	892	759	2,678	1,730	2,167	1,954	865	968	488
Waynesboro	21	5	26	9	9	10	3	5	1
Williamsburg	8	25	35	89	16	5	8	1	2
Winchester	19	52	17	13	17	8	7	8	22
PLANNING DISTRICTS									
LENOWISCO	48	47	147	218	163	108	85	117	67
Cumberland Plateau	42	29	173	191	239	246	309	246	242
Mount Rogers	196	192	368	330	233	226	222	311	171
New River Valley	320	607	197	197	157	94	85	104	154
Fifth	202	391	237	238	265	207	184	207	212
Central Shenandoah	322	411	446	445	341	269	313	261	396
Lord Fairfax	342	534	268	261	188	161	106	159	190
Northern Virginia	5,002	5,344	4,406	3,300	3,672	2,983	1,273	2,203	1,571
Rappahannock-Rapidan	237	288	210	255	218	179	73	147	136
Thomas Jefferson	362	291	276	316	423	325	195	283	260
Central Virginia	457	439	231	298	308	274	198	337	346
West Piedmont	265	234	405	497	556	366	270	368	386
Southside	152	121	152	167	145	103	88	132	110
Piedmont	175	11	14	130	36	32	28	54	27
Richmond Regional	2,916	1,912	2,052	1,751	1,528	1,497	657	1,759	1,343
RADCO	638	609	918	444	247	298	134	270	198
Northern Neck	158	146	92	98	125	76	60	65	59
Middle Peninsula	128	71	108	140	131	198	143	165	145
Crater	297	190	179	155	138	112	67	153	152
Southeastern Virginia	1,963	2,309	4,545	3,136	3,276	2,770	1,298	1,353	753
Peninsula	825	1,427	1,991	1,585	807	652	310	309	311
Accomack-Northampton	93	53	108	110	89	62	66	45	57

TABLE 5. (continued)
First-Quarter Residential Building Permits, 1980–88

	1988	1987	1986	1985	1984	1983	1982	1981	1980
METROPOLITAN STATISTICAL AREAS									
Bristol (Va. portion)	77	82	176	184	137	130	154	135	18
Charlottesville	279	222	136	271	358	250	136	202	199
Danville	80	66	167	163	173	145	115	159	172
Lynchburg	164	207	231	266	195	153	146	238	199
Norfolk	2,620	3,603	6,493	4,787	4,148	3,451	1,663	1,724	1,081
Northern Virginia	5,308	5,546	4,575	3,429	3,672	3,104	1,305	2,332	1,647
Richmond	3,102	2,029	2,181	1,852	1,666	1,608	723	1,890	1,437
Roanoke	185	360	217	207	265	192	184	207	165
TOTAL METROPOLITAN	11,815	12,115	14,176	11,159	10,614	9,033	4,426	6,887	4,918
TOTAL NON–METROPOLITAN	3,325	3,541	3,347	3,103	2,671	2,205	1,738	2,161	2,368
TOTAL COUNTIES	12,284	10,557	10,290	9,292	8,934	7,714	4,427	7,163	5,603
TOTAL CITIES	2,856	5,099	7,233	4,970	4,351	3,524	1,737	1,885	1,683
VIRGINIA	15,140	15,656	17,523	14,262	13,285	11,238	6,164	9,048	7,286

NOTE: NA = data not available.

TABLE 6.
Second-Quarter Residential Building Permits, 1980–88

	1988	1987	1986	1985	1984	1983	1982	1981	1980
COUNTIES									
Accomack	91	62	157	72	120	93	47	63	83
Albemarle	169	188	250	232	204	312	106	220	119
Alleghany	NA	36	55	39	6	20	NA	NA	43
Amelia	360	NA	NA	33	18	27	14	15	22
Amherst	32	61	95	94	121	90	46	89	71
Appomattox	40	50	NA	57	41	43	22	42	39
Arlington	507	242	461	255	100	110	72	62	225
Augusta	139	146	213	186	192	156	124	111	117
Bath	10	2	25	10	12	NA	NA	NA	NA
Bedford	267	320	NA	NA	123	112	60	86	103
Bland	28	25	25	22	NA	NA	NA	NA	NA
Botetourt	NA	71	NA	66	70	43	16	35	74
Brunswick	81	63	NA	48	57	44	65	113	47
Buchanan	10	18	95	104	97	102	129	139	166
Buckingham	62	NA	NA	40	NA	NA	NA	NA	NA
Campbell	81	80	181	254	207	157	98	166	157
Caroline	58	54	54	56	37	58	98	54	82
Carroll	40	34	126	106	89	84	69	86	97
Charles City	5	16	20	18	6	7	NA	12	NA
Charlotte	13	23	56	38	37	8	7	3	13
Chesterfield	1,136	1,286	1,665	965	1,229	1,050	504	659	652
Clarke	43	35	59	11	21	26	19	19	15
Craig	29	21	NA	35	NA	NA	NA	NA	NA
Culpeper	138	23	31	22	39	39	22	26	92
Cumberland	31	NA	NA	9	NA	15	10	8	17
Dickenson	NA	NA	NA	NA	63	71	88	70	90
Dinwiddie	54	48	68	64	32	76	35	47	30
Essex	27	NA	NA	NA	NA	44	15	20	23
Fairfax	2,620	3,971	3,102	2,793	3,844	2,726	1,299	2,129	1,475
Fauquier	58	NA	279	183	180	155	72	98	118
Floyd	58	65	NA	41	26	23	8	19	15
Fluvanna	86	71	NA	62	55	46	22	30	16
Franklin	77	127	252	194	218	153	150	50	56
Frederick	197	163	175	129	113	123	27	66	86
Giles	NA	58	53	30	NA	NA	NA	NA	NA
Gloucester	102	149	273	267	217	177	97	125	71
Goochland	63	51	78	65	51	42	30	38	22
Grayson	92	69	74	52	68	59	45	56	72
Greene	57	NA	NA	43	35	33	35	30	34
Greensville	12	28	NA	2	NA	NA	NA	13	24

TABLE 6. (continued)
Second-Quarter Residential Building Permits, 1980–88

	1988	1987	1986	1985	1984	1983	1982	1981	1980
COUNTIES (continued)									
Halifax	69	102	76	104	102	54	82	NA	87
Hanover	368	393	397	242	243	142	67	87	83
Henrico	689	560	1,096	623	1,318	851	173	231	300
Henry	48	64	224	234	184	171	93	72	144
Highland	13	NA	NA	5	15	24	34	12	5
Isle of Wight	160	167	179	NA	NA	155	79	68	82
James City	245	306	NA	341	166	152	136	147	64
King and Queen	0	NA	NA	NA	NA	16	16	12	23
King George	NA	59	91	58	56	18	30	46	28
King William	45	34	55	20	15	4	6	12	27
Lancaster	48	54	39	40	24	28	20	30	32
Lee	27	24	83	92	91	117	NA	37	75
Loudoun	646	652	746	418	314	386	244	196	82
Louisa	136	NA	50	143	56	80	85	57	67
Lunenburg	46	NA	NA	27	NA	NA	NA	NA	NA
Madison	40	34	41	25	NA	28	16	20	10
Mathews	22	NA	NA	NA	26	28	25	22	25
Mecklenburg	33	34	108	127	90	96	47	137	66
Middlesex	49	NA	NA	NA	NA	52	17	28	47
Montgomery	147	69	134	118	79	63	106	261	76
Nelson	36	96	47	107	94	77	101	71	120
New Kent	53	72	78	27	50	30	15	18	30
Northampton	34	NA	NA	27	30	47	12	21	21
Northumberland	86	62	55	47	NA	48	34	52	31
Nottoway	26	NA	NA	17	NA	NA	NA	NA	NA
Orange	88	106	NA	39	70	58	28	43	48
Page	80	84	70	59	52	63	35	45	44
Patrick	NA	88	NA	65	80	66	53	80	69
Pittsylvania	112	94	269	251	225	201	172	208	230
Powhatan	77	41	91	43	49	34	15	24	36
Prince Edward	71	NA	NA	36	NA	40	30	28	26
Prince George	48	59	61	89	64	44	48	40	77
Prince William	1,210	1,292	2,399	826	1,026	882	416	488	305
Pulaski	46	40	104	79	100	81	139	81	78
Rappahannock	19	27	NA	32	NA	10	14	14	16
Richmond	35	22	17	35	NA	28	3	13	12
Roanoke	157	179	253	215	210	183	107	131	92
Rockbridge	NA	NA	31	71	72	52	42	30	25
Rockingham	191	97	129	166	146	147	119	90	153
Russell	17	15	119	104	96	168	57	95	139

TABLE 6. (continued)
Second-Quarter Residential Building Permits, 1980–88

	1988	1987	1986	1985	1984	1983	1982	1981	1980
COUNTIES (continued)									
Scott	28	26	80	71	77	89	78	48	97
Shenandoah	149	114	104	75	78	52	46	80	73
Smyth	39	29	99	79	85	79	62	168	84
Southampton	44	41	39	115	37	27	23	23	19
Spotsylvania	450	570	386	430	250	176	95	89	127
Stafford	356	307	253	245	NA	68	39	104	122
Surry	33	34	24	29	NA	NA	NA	NA	NA
Sussex	29	37	25	29	NA	NA	NA	NA	NA
Tazewell	39	18	245	165	198	166	187	188	224
Warren	NA	0	117	56	29	14	27	35	39
Washington	72	98	151	152	175	145	72	109	219
Westmoreland	65	44	35	35	32	43	13	16	12
Wise	30	42	150	156	155	55	41	144	127
Wythe	105	112	91	178	NA	92	80	81	97
York	198	175	189	175	98	73	81	49	56
CITIES									
Alexandria	280	26	45	15	281	288	24	121	48
Bedford	5	13	NA	6	NA	10	4	3	3
Bristol	13	15	22	11	47	5	3	13	21
Buena Vista	6	1	3	3	NA	NA	NA	NA	NA
Charlottesville	32	34	40	53	35	19	12	20	25
Chesapeake	561	931	796	898	547	719	163	139	120
Clifton Forge	0	0	1	0	0	NA	NA	NA	NA
Colonial Heights	22	13	24	14	17	21	6	14	53
Covington	0	6	2	14	NA	NA	NA	NA	NA
Danville	10	9	18	17	10	9	5	114	15
Emporia	4	6	NA	45	2	1	0	2	26
Fairfax	2	28	4	1	16	8	9	1	0
Falls Church	0	2	5	3	0	0	0	0	0
Franklin	5	42	NA	7	2	5	2	0	3
Fredericksburg	61	0	3	153	69	14	2	3	0
Galax	0	NA	13	18	NA	NA	NA	NA	NA
Hampton	424	254	429	482	399	223	76	62	52
Harrisonburg	117	111	179	128	52	55	28	31	158
Hopewell	8	16	27	76	20	9	110	17	67
Lexington	9	NA	4	1	1	NA	NA	NA	NA
Lynchburg	75	42	22	268	130	52	106	26	37
Manassas	114	298	126	NA	93	27	25	4	8
Manassas Park	0	18	25	45	10	8	8	0	0
Martinsville	23	15	2	16	5	5	2	7	14
Newport News	438	412	724	766	717	312	154	135	72

TABLE 6. (continued)
Second-Quarter Residential Building Permits, 1980–88

	1988	1987	1986	1985	1984	1983	1982	1981	1980
CITIES (continued)									
Norfolk	188	282	387	303	231	212	220	221	279
Norton	0	2	13	8	9	8	11	9	20
Petersburg	19	12	142	10	10	9	12	3	116
Poquoson	22	18	42	34	37	23	36	27	22
Portsmouth	64	198	297	146	223	128	72	37	14
Radford	106	48	80	31	96	56	52	45	2
Richmond	50	529	191	57	51	80	117	61	301
Roanoke	30	61	59	176	26	63	4	14	34
Salem	16	25	25	19	43	27	5	13	16
South Boston	3	3	4	4	NA	NA	NA	NA	NA
Staunton	14	NA	17	7	5	18	5	16	1
Suffolk	72	150	172	93	77	140	43	20	26
Virginia Beach	1,583	798	4,935	1,885	1,988	2,375	1,135	648	664
Waynesboro	19	16	34	16	26	20	13	7	8
Williamsburg	13	12	21	11	45	23	4	5	1
Winchester	101	40	206	78	27	68	7	66	19
PLANNING DISTRICTS									
LENOWISCO	85	94	326	327	332	269	130	238	319
Cumberland Plateau	66	51	459	373	454	507	461	492	619
Mount Rogers	389	382	601	618	464	464	331	513	590
New River Valley	357	280	371	299	301	223	305	406	171
Fifth	232	399	395	564	355	336	132	193	259
Central Shenandoah	518	373	635	593	521	472	365	297	467
Lord Fairfax	570	436	731	408	320	346	161	311	276
Northern Virginia	5,379	6,529	6,913	4,356	5,684	4,435	2,097	3,001	2,143
Rappahannock–Rapidan	343	190	351	301	289	290	152	201	284
Thomas Jefferson	516	389	387	640	479	567	361	428	381
Central Virginia	500	566	298	679	622	464	336	412	410
West Piedmont	270	397	765	777	722	605	475	531	528
Southside	186	202	188	283	249	194	194	250	200
Piedmont	285	23	56	200	55	90	61	54	78
Richmond Regional	2,441	2,948	3,616	2,040	2,997	2,236	921	1,130	1,424
RADCO	925	990	787	942	412	334	264	296	359
Northern Neck	234	182	146	157	56	147	70	111	87
Middle Peninsula	245	183	328	287	258	321	176	219	216
Crater	229	253	371	358	145	160	211	136	393
Southeastern Virginia	2,677	2,609	6,805	3,447	3,105	3,761	1,737	1,156	1,207
Peninsula	1,340	1,177	1,405	1,809	1,462	806	487	425	267
Accomack–Northampton	125	62	157	99	150	140	59	84	104

TABLE 6. (continued)
Second-Quarter Residential Building Permits, 1980–88

	1988	1987	1986	1985	1984	1983	1982	1981	1980
METROPOLITAN STATISTICAL AREAS									
Bristol (Va. portion)	113	139	253	234	299	239	153	170	337
Charlottesville	344	293	290	390	329	410	175	300	194
Danville	122	103	287	268	235	210	177	322	245
Lynchburg	188	183	298	616	458	299	250	281	265
Norfolk	3,910	3,685	8,265	5,401	4,745	4,557	2,217	1,615	1,441
Northern Virginia	5,735	6,836	7,166	4,601	5,684	4,503	2,136	3,105	2,265
Richmond	2,592	3,096	3,938	2,293	3,140	2,395	1,132	1,251	1,767
Roanoke	203	336	337	476	349	316	132	193	216
TOTAL METROPOLITAN	13,207	14,671	20,834	14,279	15,239	12,929	6,372	7,237	6,730
TOTAL NON–METROPOLITAN	4,705	4,044	5,257	5,278	4,193	4,238	3,114	3,647	4,052
TOTAL COUNTIES	13,403	14,229	16,952	13,639	14,085	12,127	7,011	8,980	8,537
TOTAL CITIES	4,509	4,486	9,139	5,918	5,347	5,040	2,475	1,904	2,245
VIRGINIA	17,912	18,715	26,091	19,557	19,432	17,167	9,486	10,884	10,782

NOTE: NA = data not available.

TABLE 7.
Annual Change in First-Quarter Residential Building Permits, 1980–88

	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
COUNTIES								
Accomack	18.9 %	–50.9 %	12.5 %	20.0 %	81.8 %	–12.0 %	42.9 %	–27.1 %
Albemarle	0.8	10.3	–40.2	–12.7	33.1	62.1	–34.9	71.8
Alleghany	NA	–10.0	17.6	183.3	–60.0	NA	NA	NA
Amelia	NA	NA	NA	0.0	63.6	175.0	–75.0	166.7
Amherst	5.6	–81.4	73.2	30.2	0.0	16.2	–9.8	–22.6
Appomattox	54.5	NA	NA	10.7	16.7	0.0	50.0	–23.8
Arlington	–27.3	7.4	696.6	15.7	–86.2	156.9	–49.8	362.9
Augusta	26.3	–18.8	–3.3	23.5	16.7	–61.5	134.4	12.0
Bath	50.0	–88.9	200.0	100.0	NA	NA	NA	NA
Bedford	24.3	NA	NA	NA	–10.5	251.9	–64.5	–37.7
Bland	–21.4	–6.7	7.1	NA	NA	NA	NA	NA
Botetourt	NA	NA	NA	46.2	13.0	130.0	–69.7	–26.7
Brunswick	28.6	NA	NA	29.6	12.5	–42.9	35.5	–3.1
Buchanan	–50.0	–84.6	–9.3	–21.8	57.1	–30.0	–21.9	52.4
Buckingham	NA	NA	NA	NA	NA	NA	NA	NA
Campbell	234.4	–66.7	–47.8	40.5	57.8	–7.8	–39.6	36.7
Caroline	57.6	–53.5	97.2	–20.0	36.4	32.0	–10.7	–39.1
Carroll	–23.8	–65.6	45.2	–20.8	71.0	3.3	–26.8	–10.9
Charles City	333.3	200.0	0.0	NA	NA	NA	NA	NA
Charlotte	–9.1	–21.4	–39.1	27.8	1,700.0	NA	NA	0.0
Chesterfield	3.8	–18.2	2.3	26.9	–13.5	158.4	–62.2	11.4
Clarke	–13.9	111.8	54.5	22.2	350.0	–33.3	–72.7	120.0
Craig	30.8	NA	NA	NA	NA	NA	NA	NA
Culpeper	72.7	–33.3	3,200.0	–96.3	–3.6	250.0	–81.4	87.0
Cumberland	NA	NA	NA	NA	NA	–12.5	33.3	0.0
Dickenson	NA	NA	NA	NA	15.8	–24.0	31.6	–24.0
Dinwiddie	210.7	–41.7	77.8	–34.1	10.8	54.2	–46.7	104.5
Essex	NA	NA	NA	NA	NA	–7.7	85.7	–50.0
Fairfax	68.0	–23.4	2.7	–9.2	45.5	136.2	–43.0	17.9
Fauquier	–37.4	–1.3	3.3	5.6	56.5	240.7	–49.1	–17.2
Floyd	133.3	NA	NA	300.0	–33.3	–40.0	233.3	–76.9
Fluvanna	80.0	NA	NA	35.7	55.6	28.6	7.7	–56.7
Franklin	57.3	–35.3	–27.0	–10.2	240.4	–22.4	42.6	4.4
Frederick	–29.8	155.2	–15.0	9.7	90.7	54.3	–23.9	–23.3
Giles	NA	–9.1	83.3	NA	NA	NA	NA	NA
Gloucester	–62.2	–56.7	–14.0	28.7	–29.3	49.4	–9.2	42.0
Goochland	30.3	–25.0	10.0	53.8	–25.7	84.2	11.8	–26.1
Grayson	47.1	–34.6	–16.1	–11.4	75.0	–13.0	9.5	–27.6
Greene	NA	NA	NA	7.9	100.0	5.6	–37.9	–21.6
Greensville	10.5	NA	NA	NA	NA	NA	NA	25.0

TABLE 7. (continued)
Annual Change in First-Quarter Residential Building Permits, 1980–88

	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
COUNTIES (continued)								
Halifax	34.5 %	–30.4 %	–13.2 %	46.8 %	82.4 %	385.7 %	–86.0 %	51.5 %
Hanover	20.5	–19.5	82.5	28.7	22.9	101.9	–28.8	–16.1
Henrico	118.3	22.0	48.0	–26.0	31.1	100.9	–70.1	224.1
Henry	35.9	–63.2	–23.7	18.8	–9.3	118.6	–47.3	–5.9
Highland	NA	NA	NA	–80.0	–44.4	12.5	14.3	0.0
Isle of Wight	–26.7	36.4	NA	NA	NA	268.2	100.0	–62.1
James City	–20.7	NA	NA	25.8	63.3	4.9	100.0	–23.8
King and Queen	NA	NA	NA	NA	NA	50.0	–20.0	150.0
King George	NA	18.6	–8.5	123.8	40.0	–11.8	–34.6	44.4
King William	7.7	550.0	–78.9	46.2	–13.3	25.0	–7.7	–43.5
Lancaster	50.0	18.2	–8.3	–76.0	354.5	46.7	–16.7	0.0
Lee	–21.1	–52.5	–16.7	–9.4	NA	NA	NA	NA
Loudoun	12.1	–9.5	44.7	–23.0	134.8	250.0	–22.0	40.5
Louisa	–54.2	–21.3	258.8	–52.8	–29.4	34.2	–17.4	27.8
Lunenburg	NA	NA	NA	NA	NA	NA	NA	NA
Madison	3.8	30.0	25.0	NA	NA	114.3	–30.0	–9.1
Mathews	NA	NA	NA	NA	118.2	175.0	–69.2	–31.6
Mecklenburg	0.0	–70.0	94.4	–35.7	24.4	15.4	–23.5	13.3
Middlesex	NA	NA	NA	NA	NA	–11.8	–29.2	50.0
Montgomery	–59.0	587.5	9.8	10.9	39.4	50.0	–24.1	–65.5
Nelson	190.5	–73.4	182.1	–3.4	20.8	14.3	–40.0	40.0
New Kent	–13.3	18.4	11.8	–2.9	–7.9	280.0	–65.5	52.6
Northampton	NA	NA	NA	55.6	–50.0	12.5	60.0	11.1
Northumberland	60.5	2.7	94.7	NA	NA	0.0	3.7	8.0
Nottoway	NA	NA	NA	NA	NA	NA	NA	NA
Orange	–12.7	NA	NA	53.2	20.5	69.6	–17.9	16.7
Page	–34.3	125.8	–16.2	146.7	–61.5	69.6	–32.4	25.9
Patrick	NA	NA	NA	–61.4	175.0	18.5	–42.6	34.3
Pittsylvania	9.8	–61.6	12.0	–10.1	15.3	22.3	–22.8	–6.5
Powhatan	59.4	–20.0	21.2	17.9	55.6	50.0	–40.0	5.3
Prince Edward	NA	NA	NA	NA	NA	–18.8	–42.9	154.5
Prince George	13.6	12.8	69.6	–48.9	21.6	23.3	–30.2	95.5
Prince William	–33.1	75.7	69.0	–1.4	–16.6	143.3	–43.5	100.5
Pulaski	35.9	–45.8	50.0	–5.9	34.2	15.2	–52.9	29.6
Rappahannock	–9.1	NA	NA	NA	NA	–37.5	–38.5	–7.1
Richmond	33.3	0.0	50.0	NA	NA	0.0	–30.0	25.0
Roanoke	–20.7	–12.3	13.2	–15.0	37.9	100.0	–57.7	75.6
Rockbridge	NA	NA	–46.7	–21.1	35.7	55.6	50.0	–20.0
Rockingham	–63.5	70.3	–6.7	–2.5	90.6	14.3	–50.0	–11.1
Russell	300.0	–92.7	3.8	–10.2	227.8	–78.0	26.2	10.2

TABLE 7. (continued)
Annual Change in First-Quarter Residential Building Permits, 1980–88

	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
COUNTIES (continued)								
Scott	110.0 %	–66.7 %	–67.7 %	106.7 %	–13.5 %	33.3 %	–22.0 %	NA %
Shenandoah	0.0	10.4	48.9	2.3	46.7	–6.3	–3.0	–25.0
Smyth	–11.1	–62.5	14.3	–10.6	–7.8	155.0	–81.7	153.5
Southampton	82.9	–14.6	65.5	38.1	5.0	66.7	–50.0	20.0
Spotsylvania	–15.2	–1.5	40.9	36.5	39.3	121.8	–36.8	50.0
Stafford	51.5	19.5	31.0	NA	NA	278.1	–75.2	69.7
Surry	–40.9	10.0	–31.0	NA	NA	NA	NA	NA
Sussex	132.3	3.3	50.0	NA	NA	NA	NA	NA
Tazewell	21.1	75.9	–16.8	17.3	–47.7	22.0	60.8	–13.2
Warren	NA	42.5	–4.8	NA	NA	366.7	–77.8	–15.6
Washington	–10.3	–53.2	63.2	–7.3	12.3	–33.0	55.7	6,900.0
Westmoreland	–43.3	272.2	–60.0	80.0	31.6	90.0	0.0	25.0
Wise	–7.7	–81.7	2.9	19.0	13.7	30.8	–35.0	27.7
Wythe	28.0	–19.4	–41.5	NA	NA	35.3	–38.2	57.1
York	–17.4	–26.1	141.7	45.1	–5.3	97.4	–15.6	15.4
CITIES								
Alexandria	–99.9	NA	NA	NA	625.0	–66.7	–36.8	–19.7
Bedford	0.0	NA	NA	NA	NA	100.0	–85.7	75.0
Bristol	–71.4	–36.4	46.7	50.0	100.0	–16.7	–60.0	–11.8
Buena Vista	**	–100.0	–33.3	NA	NA	NA	NA	NA
Charlottesville	–9.4	120.7	123.1	–85.1	47.5	555.6	–35.7	–70.2
Chesapeake	–21.0	–2.6	–23.0	56.3	126.1	129.5	–16.0	104.9
Clifton Forge	NA	NA	NA	NA	NA	NA	NA	NA
Colonial Heights	–51.6	138.5	–35.0	–9.1	0.0	1,000.0	–86.7	50.0
Covington	NA	NA	–100.0	NA	NA	NA	NA	NA
Danville	160.0	–37.5	–61.9	40.0	87.5	166.7	–78.6	–17.6
Emporia	400.0	NA	NA	**	–100.0	0.0	–50.0	–95.2
Fairfax	–44.2	246.7	–63.4	720.0	150.0	–50.0	100.0	NA
Falls Church	NA	–100.0	**	NA	NA	NA	–100.0	40.0
Franklin	450.0	NA	NA	225.0	166.7	**	–100.0	–66.7
Fredericksburg	600.0	–99.7	**	–100.0	57.1	40.0	NA	NA
Galax	NA	NA	150.0	NA	NA	NA	NA	NA
Hampton	–52.5	–70.7	119.1	233.1	–13.9	220.0	–51.1	–28.7
Harrisonburg	–25.8	–14.9	166.0	0.0	1.9	766.7	–73.9	–52.1
Hopewell	262.5	–33.3	–52.0	19.0	320.0	**	–100.0	–69.2
Lexington	NA	NA	–100.0	**	NA	NA	NA	NA
Lynchburg	–75.8	313.2	46.2	23.8	–22.2	42.1	–60.4	29.7
Manassas	–83.8	58.2	**	NA	–100.0	25.0	100.0	–56.3
Manassas Park	–100.0	8.8	36.0	47.1	**	–100.0	**	NA
Martinsville	–12.5	0.0	700.0	100.0	–87.5	300.0	–33.3	–80.0
Newport News	–55.1	–17.3	10.7	100.0	31.1	233.8	–16.7	81.1

TABLE 7. (continued)
Annual Change in First-Quarter Residential Building Permits, 1980–88

	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
CITIES (continued)								
Norfolk	–59.4 %	23.3 %	97.8 %	–40.7 %	32.5 %	56.1 %	11.2 %	120.8 %
Norton	NA	–16.7	–25.0	14.3	40.0	–28.6	0.0	0.0
Petersburg	–16.7	–64.7	183.3	–33.3	–10.0	0.0	–50.0	42.9
Poquoson	0.0	–33.3	58.8	–54.1	12.1	94.1	21.4	75.0
Portsmouth	–22.6	–87.8	407.0	72.0	–41.2	–1.2	145.7	–38.6
Radford	–46.4	283.3	–43.8	14.3	229.4	–15.0	900.0	–33.3
Richmond	14.6	–46.8	–48.0	410.3	–19.4	24.1	–38.3	–77.7
Roanoke	–65.5	471.0	675.0	–86.7	–33.3	–59.1	633.3	–31.8
Salem	–29.2	–25.0	10.3	–40.8	512.5	33.3	–72.7	10.0
South Boston	0.0	0.0	–40.0	NA	NA	NA	NA	NA
Staunton	NA	NA	–84.4	638.5	–40.9	450.0	–55.6	–92.2
Suffolk	–3.5	–32.5	–6.6	92.6	3.3	378.9	0.0	5.6
Virginia Beach	17.5	–71.7	54.8	–20.2	10.9	125.9	–10.6	98.4
Waynesboro	320.0	–80.8	188.9	0.0	–10.0	233.3	–40.0	400.0
Williamsburg	–68.0	–28.6	–60.7	456.3	220.0	–37.5	700.0	–50.0
Winchester	–63.5	205.9	30.8	–23.5	112.5	14.3	–12.5	–63.6
PLANNING DISTRICTS								
LENOWISCO	2.1	–68.0	–32.6	33.7	50.9	27.1	–27.4	74.6
Cumberland Plateau	44.8	–83.2	–9.4	–20.1	–2.8	–20.4	25.6	1.7
Mount Rogers	2.1	–47.8	11.5	45.4	0.4	1.8	–28.6	81.9
New River Valley	–47.3	208.1	0.0	25.5	67.0	10.6	–18.3	–32.5
Fifth	–48.3	65.0	–0.4	–12.2	30.9	12.5	–11.1	–2.4
Central Shenandoah	–21.7	–7.8	0.2	30.5	26.8	–14.1	19.9	–34.1
Lord Fairfax	–36.0	99.3	2.7	38.8	16.8	51.9	–33.3	–16.3
Northern Virginia	–6.4	21.3	33.5	–10.1	23.1	134.3	–42.2	40.2
Rappahannock–Rapidan	–17.7	37.1	–17.6	17.0	21.8	145.2	–50.3	8.1
Thomas Jefferson	24.4	5.4	–12.7	–25.3	30.2	66.7	–31.1	8.8
Central Virginia	4.1	90.0	–22.5	–3.2	12.4	38.4	–41.2	–2.6
West Piedmont	13.2	–42.2	–18.5	–10.6	51.9	35.6	–26.6	–4.7
Southside	25.6	–20.4	–9.0	15.2	40.8	17.0	–33.3	20.0
Piedmont	1,490.9	–21.4	–89.2	261.1	12.5	14.3	–48.1	100.0
Richmond Regional	52.5	–6.8	17.2	14.6	2.1	127.9	–62.6	31.0
RADCO	4.8	–33.7	106.8	79.8	–17.1	122.4	–50.4	36.4
Northern Neck	8.2	58.7	–6.1	–21.6	64.5	26.7	–7.7	10.2
Middle Peninsula	80.3	–34.3	–22.9	6.9	–33.8	38.5	–13.3	13.8
Crater	56.3	6.1	15.5	12.3	23.2	67.2	–56.2	0.7
Southeastern Virginia	–15.0	–49.2	44.9	–4.3	18.3	113.4	–4.1	79.7
Peninsula	–42.2	–28.3	25.6	96.4	23.8	110.3	0.3	–0.6
Accomack–Northampton	75.5	–50.9	–1.8	23.6	43.5	–6.1	46.7	–21.1

TABLE 7. (continued)
Annual Change in First-Quarter Residential Building Permits, 1980–88

	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
METROPOLITAN STATISTICAL AREAS								
Bristol (Va. portion)	–6.1 %	–53.4 %	–4.3 %	34.3 %	5.4 %	–15.6 %	14.1 %	650.0 %
Charlottesville	25.7	63.2	–49.8	–24.3	43.2	83.8	–32.7	1.5
Danville	21.2	–60.5	2.5	–5.8	19.3	26.1	–27.7	–7.6
Lynchburg	–20.8	–10.4	–13.2	36.4	27.5	4.8	–38.7	19.6
Norfolk	–27.3	–44.5	35.6	15.4	20.2	107.5	–3.5	59.5
Northern Virginia	–4.3	21.2	33.4	–6.6	18.3	137.9	–44.0	41.6
Richmond	52.9	–7.0	17.8	11.2	3.6	122.4	–61.7	31.5
Roanoke	–48.6	65.9	4.8	–21.9	38.0	4.3	–11.1	25.5
TOTAL METROPOLITAN	–2.5	–14.5	27.0	5.1	17.5	104.1	–35.7	40.0
TOTAL NON–METROPOLITAN	–6.1	5.8	7.9	16.2	21.1	26.9	–19.6	–8.7
TOTAL COUNTIES	16.4	2.6	10.7	4.0	15.8	74.2	–38.2	27.8
TOTAL CITIES	–44.0	–29.5	45.5	14.2	23.5	102.9	–7.9	12.0
VIRGINIA	–3.3	–10.7	22.9	7.4	18.2	82.3	–31.9	24.2

NOTE: NA = data not available; ** = value not defined because of zero divisor.

TABLE 8.
Annual Change in Second-Quarter Residential Building Permits, 1980–88

	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
COUNTIES								
Accomack	46.8 %	–60.5 %	118.1 %	–40.0 %	29.0 %	97.9 %	–25.4 %	–24.1 %
Albemarle	–10.1	–24.8	7.8	13.7	–34.6	194.3	–51.8	84.9
Alleghany	NA	–34.5	41.0	550.0	–70.0	NA	NA	NA
Amelia	NA	NA	NA	83.3	–33.3	92.9	–6.7	–31.8
Amherst	–47.5	–35.8	1.1	–22.3	34.4	95.7	–48.3	25.4
Apomattox	–20.0	NA	NA	39.0	–4.7	95.5	–47.6	7.7
Arlington	109.5	–47.5	80.8	155.0	–9.1	52.8	16.1	–72.4
Augusta	–4.8	–31.5	14.5	–3.1	23.1	25.8	11.7	–5.1
Bath	400.0	–92.0	150.0	–16.7	NA	NA	NA	NA
Bedford	–16.6	NA	NA	NA	9.8	86.7	–30.2	–16.5
Bland	12.0	0.0	13.6	NA	NA	NA	NA	NA
Botetourt	NA	NA	NA	–5.7	62.8	168.8	–54.3	–52.7
Brunswick	28.6	NA	NA	–15.8	29.5	–32.3	–42.5	140.4
Buchanan	–44.4	–81.1	–8.7	7.2	–4.9	–20.9	–7.2	–16.3
Buckingham	NA	NA	NA	NA	NA	NA	NA	NA
Campbell	1.3	–55.8	–28.7	22.7	31.8	60.2	–41.0	5.7
Caroline	7.4	0.0	–3.6	51.4	–36.2	–40.8	81.5	–34.1
Carroll	17.6	–73.0	18.9	19.1	6.0	21.7	–19.8	–11.3
Charles City	–68.8	–20.0	11.1	200.0	–14.3	NA	NA	NA
Charlotte	–43.5	–58.9	47.4	2.7	362.5	14.3	133.3	–76.9
Chesterfield	–11.7	–22.8	72.5	–21.5	17.0	108.3	–23.5	1.1
Clarke	22.9	–40.7	436.4	–47.6	–19.2	36.8	0.0	26.7
Craig	38.1	NA	NA	NA	NA	NA	NA	NA
Culpeper	500.0	–25.8	40.9	–43.6	0.0	77.3	–15.4	–71.7
Cumberland	NA	NA	NA	NA	NA	50.0	25.0	–52.9
Dickenson	NA	NA	NA	NA	–11.3	–19.3	25.7	–22.2
Dinwiddie	12.5	–29.4	6.3	100.0	–57.9	117.1	–25.5	56.7
Essex	NA	NA	NA	NA	NA	193.3	–25.0	–13.0
Fairfax	–34.0	28.0	11.1	–27.3	41.0	109.9	–39.0	44.3
Fauquier	NA	NA	52.5	1.7	16.1	115.3	–26.5	–16.9
Floyd	–10.8	NA	NA	57.7	13.0	187.5	–57.9	26.7
Fluvanna	21.1	NA	NA	12.7	19.6	109.1	–26.7	87.5
Franklin	–39.4	–49.6	29.9	–11.0	42.5	2.0	200.0	–10.7
Frederick	20.9	–6.9	35.7	14.2	–8.1	355.6	–59.1	–23.3
Giles	NA	9.4	76.7	NA	NA	NA	NA	NA
Gloucester	–31.5	–45.4	2.2	23.0	22.6	82.5	–22.4	76.1
Goochland	23.5	–34.6	20.0	27.5	21.4	40.0	–21.1	72.7
Grayson	33.3	–6.8	42.3	–23.5	15.3	31.1	–19.6	–22.2
Greene	NA	NA	NA	22.9	6.1	–5.7	16.7	–11.8
Greensville	–57.1	NA	NA	NA	NA	NA	NA	–45.8

TABLE 8. (continued)
Annual Change in Second-Quarter Residential Building Permits, 1980–88

	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
COUNTIES (continued)								
Halifax	–32.4 %	34.2 %	–26.9 %	2.0 %	88.9 %	–34.1 %	NA %	NA %
Hanover	–6.4	–1.0	64.0	–0.4	71.1	111.9	–23.0	4.8
Henrico	23.0	–48.9	75.9	–52.7	54.9	391.9	–25.1	–23.0
Henry	–25.0	–71.4	–4.3	27.2	7.6	83.9	29.2	–50.0
Highland	NA	NA	NA	–66.7	–37.5	–29.4	183.3	140.0
Isle of Wight	–4.2	–6.7	NA	NA	NA	96.2	16.2	–17.1
James City	–19.9	NA	NA	105.4	9.2	11.8	–7.5	129.7
King and Queen	NA	NA	NA	NA	NA	0.0	33.3	–47.8
King George	NA	–35.2	56.9	3.6	211.1	–40.0	–34.8	64.3
King William	32.4	–38.2	175.0	33.3	275.0	–33.3	–50.0	–55.6
Lancaster	–11.1	38.5	–2.5	66.7	–14.3	40.0	–33.3	–6.3
Lee	12.5	–71.1	–9.8	1.1	–22.2	NA	NA	–50.7
Loudoun	–0.9	–12.6	78.5	33.1	–18.7	58.2	24.5	139.0
Louisa	NA	NA	–65.0	155.4	–30.0	–5.9	49.1	–14.9
Lunenburg	NA	NA	NA	NA	NA	NA	NA	NA
Madison	17.6	–17.1	64.0	NA	NA	75.0	–20.0	100.0
Mathews	NA	NA	NA	NA	–7.1	12.0	13.6	–12.0
Mecklenburg	–2.9	–68.5	–15.0	41.1	–6.3	104.3	–65.7	107.6
Middlesex	NA	NA	NA	NA	NA	205.9	–39.3	–40.4
Montgomery	113.0	–48.5	13.6	49.4	25.4	–40.6	–59.4	243.4
Nelson	–62.5	104.3	–56.1	13.8	22.1	–23.8	42.3	–40.8
New Kent	–26.4	–7.7	188.9	–46.0	66.7	100.0	–16.7	–40.0
Northampton	NA	NA	NA	–10.0	–36.2	291.7	–42.9	0.0
Northumberland	38.7	12.7	17.0	NA	NA	41.2	–34.6	67.7
Nottoway	NA	NA	NA	NA	NA	NA	NA	NA
Orange	–17.0	NA	NA	–44.3	20.7	107.1	–34.9	–10.4
Page	–4.8	20.0	18.6	13.5	–17.5	80.0	–22.2	2.3
Patrick	NA	NA	NA	–18.8	21.2	24.5	–33.8	15.9
Pittsylvania	19.1	–65.1	7.2	11.6	11.9	16.9	–17.3	–9.6
Powhatan	87.8	–54.9	111.6	–12.2	44.1	126.7	–37.5	–33.3
Prince Edward	NA	NA	NA	NA	NA	33.3	7.1	7.7
Prince George	–18.6	–3.3	–31.5	39.1	45.5	–8.3	20.0	–48.1
Prince William	–6.3	–46.1	190.4	–19.5	16.3	112.0	–14.8	60.0
Pulaski	15.0	–61.5	31.6	–21.0	23.5	–41.7	71.6	3.8
Rappahannock	–29.6	NA	NA	NA	NA	–28.6	0.0	–12.5
Richmond	59.1	29.4	–51.4	NA	NA	833.3	–76.9	8.3
Roanoke	–12.3	–29.2	17.7	2.4	14.8	71.0	–18.3	42.4
Rockbridge	NA	NA	–56.3	–1.4	38.5	23.8	40.0	20.0
Rockingham	96.9	–24.8	–22.3	13.7	–0.7	23.5	32.2	–41.2
Russell	13.3	–87.4	14.4	8.3	–42.9	194.7	–40.0	–31.7

TABLE 8. (continued)
Annual Change in Second-Quarter Residential Building Permits, 1980–88

	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
COUNTIES (continued)								
Scott	7.7 %	–67.5 %	12.7 %	–7.8 %	–13.5 %	14.1 %	62.5 %	–50.5 %
Shenandoah	30.7	9.6	38.7	–3.8	50.0	13.0	–42.5	9.6
Smyth	34.5	–70.7	25.3	–7.1	7.6	27.4	–63.1	100.0
Southampton	7.3	5.1	–66.1	210.8	37.0	17.4	0.0	21.1
Spotsylvania	–21.1	47.7	–10.2	72.0	42.0	85.3	6.7	–29.9
Stafford	16.0	21.3	3.3	NA	NA	74.4	–62.5	–14.8
Surry	–2.9	41.7	–17.2	NA	NA	NA	NA	NA
Sussex	–21.6	48.0	–13.8	NA	NA	NA	NA	NA
Tazewell	116.7	–92.7	48.5	–16.7	19.3	–11.2	–0.5	–16.1
Warren	NA	–100.0	108.9	93.1	107.1	–48.1	–22.9	–10.3
Washington	–26.5	–35.1	–0.7	–13.1	20.7	101.4	–33.9	–50.2
Westmoreland	47.7	25.7	0.0	9.4	–25.6	230.8	–18.8	33.3
Wise	–28.6	–72.0	–3.8	0.6	181.8	34.1	–71.5	13.4
Wythe	–6.3	23.1	–48.9	NA	–100.0	15.0	–1.2	–16.5
York	13.1	–7.4	8.0	78.6	34.2	–9.9	65.3	–12.5
CITIES								
Alexandria	976.9	–42.2	200.0	–94.7	–2.4	1,100.0	–80.2	152.1
Bedford	–61.5	NA	NA	NA	NA	150.0	33.3	0.0
Bristol	–13.3	–31.8	100.0	–76.6	840.0	66.7	–76.9	–38.1
Buena Vista	500.0	–66.7	0.0	NA	NA	NA	NA	NA
Charlottesville	–5.9	–15.0	–24.5	51.4	84.2	58.3	–40.0	–20.0
Chesapeake	–39.7	17.0	–11.4	64.2	–23.9	341.1	17.3	15.8
Clifton Forge	NA	–100.0	**	NA	NA	NA	NA	NA
Colonial Heights	69.2	–45.8	71.4	–17.6	–19.0	250.0	–57.1	–73.6
Covington	–100.0	200.0	–85.7	NA	NA	NA	NA	NA
Danville	11.1	–50.0	5.9	70.0	11.1	80.0	–95.6	660.0
Emporia	–33.3	NA	NA	2,150.0	100.0	**	–100.0	–92.3
Fairfax	–92.9	600.0	300.0	–93.8	100.0	–11.1	800.0	**
Falls Church	–100.0	–60.0	66.7	**	NA	NA	NA	NA
Franklin	–88.1	NA	NA	250.0	–60.0	150.0	**	–100.0
Fredericksburg	**	–100.0	–98.0	121.7	392.9	600.0	–33.3	**
Galax	NA	NA	–27.8	NA	NA	NA	NA	NA
Hampton	66.9	–40.8	–11.0	20.8	78.9	193.4	22.6	19.2
Harrisonburg	5.4	–38.0	39.8	146.2	–5.5	96.4	–9.7	–80.4
Hopewell	–50.0	–40.7	–64.5	280.0	122.2	–91.8	547.1	–74.6
Lexington	NA	NA	300.0	0.0	NA	NA	NA	NA
Lynchburg	78.6	90.9	–91.8	106.2	150.0	–50.9	307.7	–29.7
Manassas	–61.7	136.5	NA	NA	244.4	8.0	525.0	–50.0
Manassas Park	–100.0	–28.0	–44.4	350.0	25.0	0.0	**	NA
Martinsville	53.3	650.0	–87.5	220.0	0.0	150.0	–71.4	–50.0
Newport News	6.3	–43.1	–5.5	6.8	129.8	102.6	14.1	87.5

TABLE 8. (continued)
Annual Change in Second-Quarter Residential Building Permits, 1980–88

	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
CITIES (continued)								
Norfolk	–33.3 %	–27.1 %	27.7 %	31.2 %	9.0 %	–3.6 %	–0.5 %	–20.8 %
Norton	–100.0	–84.6	62.5	–11.1	12.5	–27.3	22.2	–55.0
Petersburg	58.3	–91.5	1,320.0	0.0	11.1	–25.0	300.0	–97.4
Poquoson	22.2	–57.1	23.5	–8.1	60.9	–36.1	33.3	22.7
Portsmouth	–67.7	–33.3	103.4	–34.5	74.2	77.8	94.6	164.3
Radford	120.8	–40.0	158.1	–67.7	71.4	7.7	15.6	2,150.0
Richmond	–90.5	177.0	235.1	11.8	–36.3	–31.6	91.8	–79.7
Roanoke	–50.8	3.4	–66.5	576.9	–58.7	1,475.0	–71.4	–58.8
Salem	–36.0	0.0	31.6	–55.8	59.3	440.0	–61.5	–18.8
South Boston	0.0	–25.0	0.0	NA	NA	NA	NA	NA
Staunton	NA	NA	142.9	40.0	–72.2	260.0	–68.8	1,500.0
Suffolk	–52.0	–12.8	84.9	20.8	–45.0	225.6	115.0	–23.1
Virginia Beach	98.4	–83.8	161.8	–5.2	–16.3	109.3	75.2	–2.4
Waynesboro	18.8	–52.9	112.5	–38.5	30.0	53.8	85.7	–12.5
Williamsburg	8.3	–42.9	90.9	–75.6	95.7	475.0	–20.0	400.0
Winchester	152.5	–80.6	164.1	188.9	–60.3	871.4	–89.4	247.4
PLANNING DISTRICTS								
LENOWISCO	–9.6	–71.2	–0.3	–1.5	23.4	106.9	–45.4	–25.4
Cumberland Plateau	29.4	–88.9	23.1	–17.8	–10.5	10.0	–6.3	–20.5
Mount Rogers	1.8	–36.4	–2.8	33.2	0.0	40.2	–35.5	–13.1
New River Valley	27.5	–24.5	24.1	–0.7	35.0	–26.9	–24.9	137.4
Fifth	–41.9	1.0	–30.0	58.9	5.7	154.5	–31.6	–25.5
Central Shenandoah	38.9	–41.3	7.1	13.8	10.4	29.3	22.9	–36.4
Lord Fairfax	30.7	–40.4	79.2	27.5	–7.5	114.9	–48.2	12.7
Northern Virginia	–17.6	–5.6	58.7	–23.4	28.2	111.5	–30.1	40.0
Rappahannock–Rapidan	80.5	–45.9	16.6	4.2	–0.3	90.8	–24.4	–29.2
Thomas Jefferson	32.6	0.5	–39.5	33.6	–15.5	57.1	–15.7	12.3
Central Virginia	–11.7	89.9	–56.1	9.2	34.1	38.1	–18.4	0.5
West Piedmont	–32.0	–48.1	–1.5	7.6	19.3	27.4	–10.5	0.6
Southside	–7.9	7.4	–33.6	13.7	28.4	0.0	–22.4	25.0
Piedmont	1,139.1	–58.9	–72.0	263.6	–38.9	47.5	13.0	–30.8
Richmond Regional	–17.2	–18.5	77.3	–31.9	34.0	142.8	–18.5	–20.6
RADCO	–6.6	25.8	–16.5	128.6	23.4	26.5	–10.8	–17.5
Northern Neck	28.6	24.7	–7.0	180.4	–61.9	110.0	–36.9	27.6
Middle Peninsula	33.9	–44.2	14.3	11.2	–19.6	82.4	–19.6	1.4
Crater	–9.5	–31.8	3.6	146.9	–9.4	–24.2	55.1	–65.4
Southeastern Virginia	2.6	–61.7	97.4	11.0	–17.4	116.5	50.3	–4.2
Peninsula	13.8	–16.2	–22.3	23.7	81.4	65.5	14.6	59.2
Accomack–Northampton	101.6	–60.5	58.6	–34.0	7.1	137.3	–29.8	–19.2

TABLE 8. (continued)
Annual Change in Second-Quarter Residential Building Permits, 1980–88

	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
METROPOLITAN STATISTICAL AREAS								
Bristol (Va. portion)	–18.7 %	–45.1 %	8.1 %	–21.7 %	25.1 %	56.2 %	–10.0 %	–49.6 %
Charlottesville	17.4	1.0	–25.6	18.5	–19.8	134.3	–41.7	54.6
Danville	18.4	–64.1	7.1	14.0	11.9	18.6	–45.0	31.4
Lynchburg	2.7	–38.6	–51.6	34.5	53.2	19.6	–11.0	6.0
Norfolk	6.1	–55.4	53.0	13.8	4.1	105.5	37.3	12.1
Northern Virginia	–16.1	–4.6	55.7	–19.1	26.2	110.8	–31.2	37.1
Richmond	–16.3	–21.4	71.7	–27.0	31.1	111.6	–9.5	–29.2
Roanoke	–39.6	–0.3	–29.2	36.4	10.4	139.4	–31.6	–10.6
TOTAL METROPOLITAN	–10.0	–29.6	45.9	–6.3	17.9	102.9	–12.0	7.5
TOTAL NON–METROPOLITAN	16.3	–23.1	–0.4	25.9	–1.1	36.1	–14.6	–10.0
TOTAL COUNTIES	–5.8	–16.1	24.3	–3.2	16.1	73.0	–21.9	5.2
TOTAL CITIES	0.5	–50.9	54.4	10.7	6.1	103.6	30.0	–15.2
VIRGINIA	–4.3	–28.3	33.4	0.6	13.2	81.0	–12.8	0.9

NOTE: NA = data not available; ** = value not defined because of zero divisor.

VIRGINIA PLANNING DISTRICTS

1 LENOWISCO

- Lee County
- Scott County
- Wise County
- Norton City

2 Cumberland Plateau

- Buchanan County
- Dickenson County
- Russell County
- Tazewell County

3 Mount Rogers

- Bland County
- Carroll County
- Grayson County
- Smyth County
- Washington County
- Wythe County
- Bristol City
- Galax City

4 New River Valley

- Floyd County
- Giles County
- Montgomery County
- Pulaski County
- Radford City

5 Fifth

- Alleghany County
- Botetourt County
- Craig County
- Roanoke County
- Clifton Forge City
- Covington City
- Roanoke City
- Salem City

6 Central Shenandoah

- Augusta County
- Bath County
- Highland County
- Rockbridge County
- Rockingham County
- Buena Vista City
- Harrisonburg City
- Lexington City
- Staunton City
- Waynesboro City

7 Lord Fairfax

- Clarke County
- Frederick County
- Page County
- Shenandoah County
- Warren County
- Winchester City

8 Northern Virginia

- Arlington County
- Fairfax County
- Loudoun County
- Prince William County
- Alexandria City
- Fairfax City
- Falls Church City
- Manassas City
- Manassas Park City

9 Rappahannock-Rapidan

- Culpeper County
- Fauquier County
- Madison County
- Orange County
- Rappahannock County

10 Thomas Jefferson

- Albemarle County
- Fluvanna County
- Greene County
- Louisa County
- Nelson County
- Charlottesville City

11 Central Virginia

- Amherst County
- Appomattox County
- Bedford County
- Campbell County
- Bedford City
- Lynchburg City

12 West Piedmont

- Franklin County
- Henry County
- Patrick County
- Pittsylvania County
- Danville City
- Martinsville City

13 Southside

- Brunswick County
- Halifax County
- Mecklenburg County
- South Boston City

14 Piedmont

- Amelia County
- Buckingham County
- Charlotte County
- Cumberland County
- Lunenburg County
- Nottoway County
- Prince Edward County

VIRGINIA PLANNING DISTRICTS (continued)

15 Richmond Regional

Charles City County
Chesterfield County
Goochland County
Hanover County
Henrico County
New Kent County
Powhatan County
Richmond City

16 RADCO

Caroline County
King George County
Spotsylvania County
Stafford County
Fredericksburg City

17 Northern Neck

Lancaster County
Northumberland County
Richmond County
Westmoreland County

18 Middle Peninsula

Essex County
Gloucester County
King and Queen County
King William County
Mathews County
Middlesex County

19 Crater

Dinwiddie County
Greensville County
Prince George County
Surry County
Sussex County
Colonial Heights City
Emporia City
Hopewell City
Petersburg City

20 Southeastern Virginia

Isle of Wight County
Southampton County
Chesapeake City
Franklin City
Norfolk City
Portsmouth City
Suffolk City
Virginia Beach City

21 Peninsula

James City County
York County
Hampton City
Newport News City
Poquoson City
Williamsburg City

22 Accomack-Northampton

Accomack County
Northampton County

METROPOLITAN STATISTICAL AREAS

Charlottesville

- Albemarle County
- Fluvanna County
- Greene County
- Charlottesville City

Danville

- Pittsylvania County
- Danville City

Johnson City-Kingsport-Bristol, Tennessee-Virginia

- Virginia Portion:
  - Scott County
  - Washington County
  - Bristol City
- Tennessee Portion:
  - Carter County
  - Hawkins County
  - Sullivan County
  - Unicoi County
  - Washington County

Lynchburg[a]

- Amherst County
- Campbell County
- Lynchburg City

Norfolk-Virginia Beach-Newport News[b]

- Gloucester County
- James City County
- York County
- Chesapeake City
- Norfolk City
- Portsmouth City
- Suffolk City
- Virginia Beach City
- Hampton City
- Newport News City
- Poquoson City
- Williamsburg City

Richmond-Petersburg[c]

- Charles City County
- Chesterfield County
- Goochland County
- Hanover County
- Henrico County
- New Kent County
- Powhatan County
- Dinwiddie County
- Prince George County
- Colonial Heights City
- Hopewell City
- Petersburg City
- Richmond City

Roanoke[d]

- Botetourt County
- Roanoke County
- Roanoke City
- Salem City

Washington, D.C.-Maryland-Virginia[e]

- Virginia Portion:
  - Arlington County
  - Fairfax County
  - Loudoun County
  - Prince William County
  - Stafford County
  - Alexandria City
  - Fairfax City
  - Falls Church City
  - Manassas City
  - Manassas Park City
- District of Columbia
- Maryland Portion:
  - Calvert County
  - Charles County
  - Frederick County
  - Montgomery County
  - Prince George's County

---

[a] Appomattox County was removed from the Lynchburg MSA on June 30, 1983.

[b] On June 30, 1983 the Norfolk-Virginia Beach-Portsmouth MSA and the Newport News-Hampton MSA were combined to form the Norfolk-Virginia Beach-Newport News MSA.

[c] On June 30, 1983 the Petersburg-Colonial Heights-Hopewell MSA and the Richmond MSA were combined to form the Richmond-Petersburg MSA.

[d] Craig County was removed from the Roanoke MSA on June 30, 1983.

[e] Stafford County, Va., and Calvert and Frederick Counties, Md., were added to the Washington, D.C.-Md.-Va. MSA on June 30, 1983.

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Housing Units Authorized in Virginia's Counties and Cities:

3rd and 4th Quarters, 1988

Michael A. Spar

Julia H. Martin

Center for Public Service
University of Virginia

June 1989

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FOREWORD

The Center for Public Service is pleased to present the latest report in our series, *Housing Units Authorized in Virginia's Counties and Cities.*

Produced by the Center's Demographic Section, this series began in 1970 as an annual report. In 1976 the series was made quarterly. Reports in the series now appear three times a year, with two issues covering quarterly activity and an annual summary. In addition to data for counties and independent cities, *Housing Units Authorized* gives totals for each of the state's twenty-two planning districts and eight metropolitan statistical areas.

The Center wishes to thank the following individuals for their assistance in collecting the permit data presented in this report: Glen Skinner, LENOWISCO Planning District Commission; Sally Morgan, Mount Rogers Planning District Commission; Elaine Echols and Todd Steiss, Mount Rogers Planning District Commission; Helen Smithers, FIFTH Planning District Commission; William Vaughn, Central Shenandoah Planning District Commission; Lisa Phillips, Rappahannock–Rapidan Planning District Commission; James B. Caravati, Thomas Jefferson Planning District Commission; Mathew Montavon, Central Virginia Planning District Commission; Robert Dowd, West Piedmont Planning District Commission; Gail Moody, Southside Planning District Commission; Jack Houghton, Piedmont Planning District Commission; V. Reynolds, Northern Neck Planning District Commission; Jeff Burdett, Middle Peninsula Planning District Commission; Joseph J. Vinsh, Jr., Crater Planning District Commission; Claudia B. Gooch and Debra M. Darr, Southeastern Virginia Planning District Commission.

Special thanks go the the authors of this report. They labored diligently and with insight to produce this publication. Also, thanks go to other staff members at the Center for Public Service who assisted the authors in preparing this study. George E. Barnes and Sandra H. Wiley edited the report; Barry A. Jackson designed the layout.

We hope readers will find this report to be a useful source of information on building activity in the state, and we will be pleased to answer questions about the data.

A.E. Dick Howard
Director, Center for Public Service
University of Virginia

Charlottesville
July 1988

SUMMARY

Virginia's housing industry remained strong in the second half of 1988. In the third quarter, 17,196 new housing units were authorized for construction in the state, a figure nearly 5 percent higher than the average for this quarter during the past five years. In the fourth quarter, with 15,819 new units authorized, building activity rose 2 percent compared to the average fourth quarter. During these two quarters Virginia's housing industry performed at about the same level as the nation as a whole.

Between the last census count of housing (April 1, 1980) and the end of December 1988, permits for 533,229 new housing units (including mobile homes) have been issued in Virginia. This represents an increase of 26 percent over the 2,020,941 units counted in the 1980 census.

Fairfax County once again led the state in construction activity during both quarters, issuing nearly 2.5 times as many permits as the next closest locality. The five leading planning districts in number of permits issued during both quarters were Northern Virginia, Southeastern Virginia, Richmond Regional, Peninsula, and RADCO. These five districts combined accounted for about three-quarters of all building activity in the state.

Three of the state's eight Metropolitan Statistical Areas—the Virginia portion of Washington, D.C., Richmond–Petersburg, and Norfolk–Virginia Beach–Portsmouth—led the state in building activity. Combined, these three metropolitan areas accounted for about three-quarters of all construction in the Commonwealth.

The average cost of a single-family dwelling in Virginia increased substantially from $69,371 in the second quarter to $75,278 in the third quarter (an increase of 8.5 percent). In the fourth quarter, however, the average cost fell slightly to $73,165, a decline of about 3 percent. During 1987 (the last year for which complete data are available) the total value of residential housing constructed in Virginia was about $3.7 billion, and the value of nonresidential construction was about $2 billion.

Construction of single-family units accounts for the majority of building activity in most localities. In a few localities, however, construction of multi-family units predominates. In both the third and fourth quarters, for example, multi-family units accounted for more than half of all permits issued in Arlington and Culpeper counties, and in Norfolk and Winchester cities.

ANALYSIS

Introduction

Building activity is one of the most frequently used indicators of economic and demographic change. Presently, the number of housing units authorized by local building permits is the best measure of housing starts available for Virginia's counties and independent cities. Most of the information contained in this report is supplied by local building officials to the Construction Division of the U.S. Bureau of the Census. The Bureau, in turn, forwards the data to the Center for Public Service where they are tabulated and compiled. For about forty of the state's smallest localities building permit statistics are collected by the planning districts directly from local building officials, and then forwarded to the Center for tabulation.

In this report, **tables 1 and 2** give annual totals for the value of residential and nonresidential construction in the state. The number of residential building permits issued for housing units in Virginia counties, independent cities, planning districts, and metropolitan statistical areas for July–September 1988 is detailed in **Table** 3 and for October–December in **Table 4**. The data in this series include the number of permits issued by structure type, the aggregate value of these permits, the number of demolitions recorded in each locality, and the net increase in the housing stock. **Tables 5 and 6** present historical data on the total number of permits issued during the third and fourth quarters, respectively. **Tables 7 and 8** show the annual percentage change from year to year in the total number of permits issued; Table 7 contains data for third quarter changes, and Table 8 contains analogous data for the fourth quarter.

We are continuing the policy of not publishing data imputed by the Census Bureau. Localities that did not file a complete set of monthly reports are identified by footnotes in both tables. Localities that make annual rather than monthly reports are also noted in the tables. In January 1987 the Census Bureau stopped collecting information on mobile homes; this is why most localities are listed as having issued no mobile home permits. The Center for Public Service continues to collect mobile home data for some localities, but these data should be interpreted cautiously, since it has come to our attention that many localities do not distinguish between new mobile homes and mobile homes that are relocating within the locality.

The cost figures reported here are estimated construction costs submitted by the builders, and often exclude land acquisition costs or the builders' profit margin. Additionally, the Census Bureau estimates that nationwide underestimation of costs on construction itself (i.e., materials and labor) runs from about 17.5 percent for single units, to about 30 percent for structures of two to four units, to more than 50 percent for structures of five or more units. The figures for average cost per unit, therefore, do not represent an estimate of the price of housing to the consumer. Despite these limitations, construction costs constitute a large proportion of the total market cost of housing, and thus the reported figures provide an important means of comparison among localities and for one area over time.

Data on the number of permits issued are considerably more reliable than the data for costs. The Census Bureau considers its estimates of housing

TABLE 1.
Aggregate Value of Residential Construction, Virginia: 1970–1987

Year	Value of Construction in Current Dollars (in Millions $)	Census Bureau Construction Cost Index	Deflated Value of Construction in Constant 1982 Dollars (in Millions $)
1970	544.7	35.7	1,525.8
1971	1,023.0	37.7	2,713.5
1972	1,237.2	40.1	3,085.3
1973	1,332.9	43.9	3,036.2
1974	879.7	48.4	1,817.6
1975	838.9	52.8	1,588.8
1976	1,003.8	56.6	1,773.5
1977	1,564.5	63.2	2,475.5
1978	1,703.2	72.3	2,355.7
1979	1,617.3	81.7	1,979.6
1980	1,357.3	90.6	1,498.1
1981	1,134.8	97.7	1,161.5
1982	1,260.3	100.0	1,260.3
1983	2,257.8	102.6	2,200.6
1984	2,601.8	106.4	2,445.3
1985	3,018.9	109.6	2,754.5
1986	3,770.9	111.8	3,372.9
1987	3,660.4	114.4	3,199.7

SOURCES: Census Bureau Construction Cost Index from U.S. Department of Commerce, *Construction Review* 33 (March–April 1988), Table E-1; annual data from previous editions of *Housing Units Authorized*.
NOTE: Deflated value = current value x (100 / index value).

authorizations in Virginia to be accurate to within plus or minus 1 percent.

Third-Quarter Trends

During the third quarter 17,196 housing units were authorized for construction in Virginia. Mobile homes accounted for 773 permits, with the balance, 16,423 permits, being for single-family or multi-unit structures. This level of building activity represents a 4.6 percent increase over the previous five first quarters, from 1983 to 1987, when an average of about 15,700 permits were issued quarterly (this comparison excludes mobile homes). Despite this above-average performance, permit activity during the quarter was down 4.5 percent compared to the same quarter a year ago. Permit activity was also down—by 3 percent—from the previous quarter, although there is normally a 12 percent seasonal decrease between the second and third quarters.

A total of 12,382 single-family housing unit permits were issued during the quarter, an increase of 7.7 percent over the five-year average of 11,500 units per quarter. Compared to the same quarter a year ago, 4 percent more single-family unit permits were issued, but compared to the second quarter 5 percent fewer permits were issued. Figure 1 shows quarterly changes since 1980 in the total number of permits issued and the number of single-family unit permits.

TABLE 2.
Aggregate Value of Nonresidential Construction, Virginia: 1980–1987

Year	Value of Construction in Current Dollars (in Millions $)	Boeckh Index for Commercial and Factory Buildings	Deflated Value of Construction in Constant 1982 Dollars (in Millions $)
1980	664.9	84.1	790.6
1981	781.6	92.2	847.7
1982	790.4	100.0	790.4
1983	1,013.6	105.3	962.6
1984	1,242.8	109.4	1,136.0
1985	1,425.5	111.3	1,280.8
1986	1,855.1	113.2	1,638.8
1987	1,976.6	115.1	1,717.3

SOURCES: Boeckh Index from U.S. Department of Commerce, *Construction Review* 33 (March–April 1988), Table E–1; annual data from previous editions of *Housing Units Authorized*.

NOTES: The Boeckh Index is an independent index of construction costs compiled by The American Appraisal Company, Inc. Deflated value = current value x (100 / index value).

The total value of all permits (excluding mobile homes) issued during the third quarter was $1,062.4 million, 13.2 percent higher than the $938.5 million issued during the same quarter a year ago. The total value of all single-family unit permits issued was $932.1 million, compared to $789.2 million a year ago, an increase of 18.1 percent.

Third-quarter construction costs per unit increased for single-family units, and showed a moderate increase as well for all unit types combined (single-family units, mobile homes, and multi-unit structures). The average cost of a single-family unit rose from $69,371 in the second quarter to $75,278 in the third, an increase of 8.5 percent. For all unit types average costs increased from $59,528 to $62,125, a 4.4 percent rise. Figure 2 shows quarterly changes since 1980 in the average cost of all units and single-family units.

Building trends in Virginia frequently mirror national trends, and this was again the case in the third quarter. Between the second and third quarters of 1988, the number of permits issued for total units declined 4 percent in Virginia and nearly 11 percent in the U.S. There was a 4 percent reduction statewide and a 6 percent reduction nationally between the third quarters of 1987 and 1988.

For single-family units, Virginia and the U.S. moved in opposite directions in one important comparison. In the U.S., single-family unit permits issued during the third quarter decreased about 10 percent compared to the preceding quarter. There was also a small decrease (less than one percent) compared to the same quarter a year ago. In Virginia the number of single-family unit permits decreased 5 percent since the last quarter, but *increased* 4 percent over the same quarter a year ago.

Despite the difference just noted, a comparison of Virginia and U.S. permit activity on an annual basis discloses long-term similarities in the basic trends. Figure 3 shows annual permit activity for the United States (measured on the left vertical axis) and Virginia (measured on the right vertical axis); it makes clear the high degree of correspondence between housing activity in the state and the nation.

One reason why building trends are so similar in Virginia and the U.S. is because the housing industry throughout the country is so closely tied

FIGURE 1.
Number of Permits Issued, 1980:1–1988:4

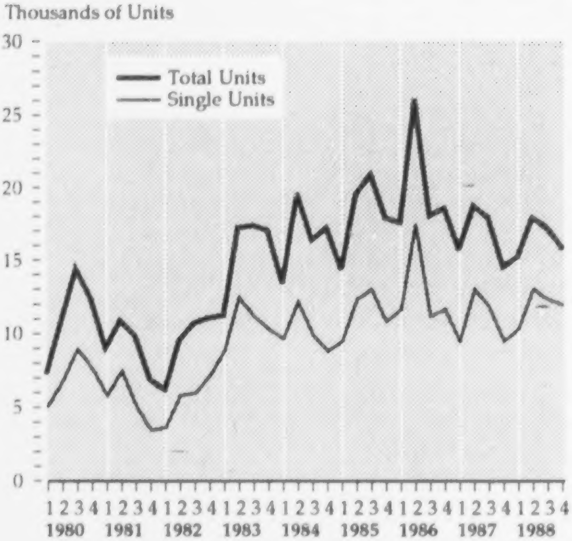


FIGURE 2.
Average Value of Permits Per Unit, 1980:1–1988:4

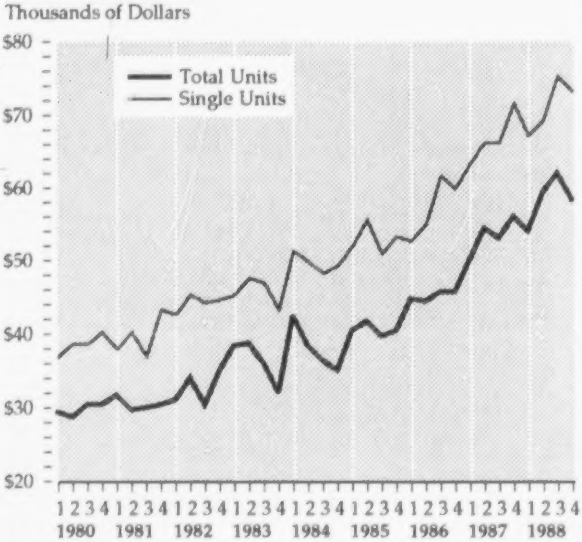
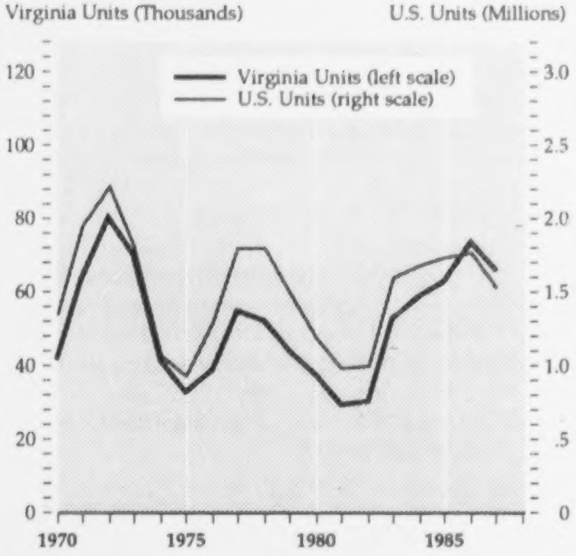
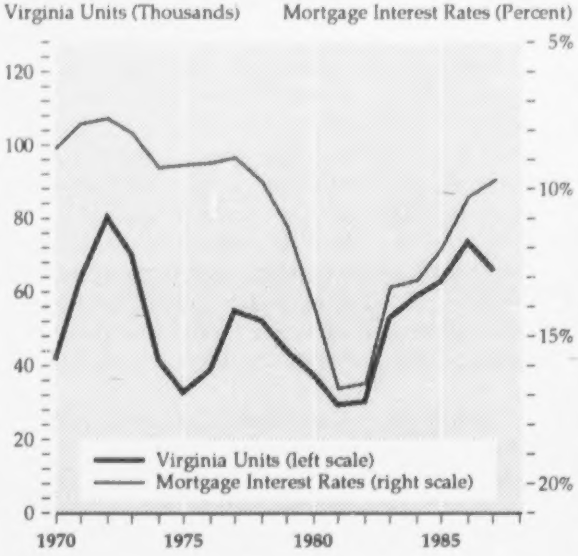


FIGURE 3.
Residential Permits Issued in Virginia and the United States, 1970–87



NOTE: Mobile unit permits not included.

FIGURE 4.
Residential Permits Issued in Virginia and Mortgage Interest Rates, 1970–87



NOTE: Mobile unit permits not included.

to the availability and cost of money. Simply stated, when mortgage interest rates increase, building activity declines, and vice-versa. Figure 4 shows the relationship between building activity in Virginia, as measured by the total number of permits issued, and interest rates for the United States. State permits are measured on the left vertical axis, while mortgage interest rates (more precisely, the average effective commitment rate for 25-year term, 75 percent loan-to-price ratio mortgages) are measured, inverted, on the right vertical axis. This figure shows that prior to 1977 housing construction reacted strongly to even minor fluctuations in interest rates, while since the late 1970s the response to rate changes has been more nearly proportional.

A significant share of all building permits issued in the Commonwealth was concentrated in just five of the state's twenty-two planning districts (PDs). The Northern Virginia PD, which includes Fairfax County and other localities near Washington, D.C., led the state with 5,535 permits issued, or nearly a third of all permits statewide. The Richmond Regional PD, which includes Richmond City and surrounding suburban counties like Chesterfield and Henrico, ranked second with 2,914 permits issued—16.9 percent of the state total. The Southeastern Virginia PD, including Virginia Beach, Chesapeake, Portsmouth, and Norfolk cities, issued 2,150 permits, or 13 percent of the state total. Peninsula PD, centered around Hampton and Newport News cities, was fourth with 1,403 permits, about 8 percent of the state total. The RADCO PD, consisting of Fredericksburg City and its surrounding suburban localities, issued 1,115 permits, 6.5 percent of the state total. Combined, these five PDs accounted for 13,117 permits, about 76 percent of all permits issued in Virginia.

Another way of looking at the concentration of building activity in Virginia is to focus on the state's eight Metropolitan Statistical Areas (MSAs). MSAs are groups of economically and socially integrated counties and cities designated by the federal Office of Management and Budget. Six MSAs—including Charlottesville, Danville, Lynchburg, Norfolk–Virginia Beach–Newport News (referred to as Norfolk in the tables), Richmond–Petersburg (referred to as Richmond), and Roanoke—lie wholly within Virginia's borders, as do portions of two others—Washington, D.C. (referred to as Northern Virginia), and Johnson City–Kingsport–Bristol (referred to as Bristol).

Because metropolitan areas contain the state's largest cities and counties, and thus most of the population, it is not surprising to find most of the state's building activity also concentrated in these areas. In fact, building activity is slightly more concentrated in the state's MSAs than is the population. Provisional population estimates for 1987 indicate that Virginia's MSAs contain about 72 percent of the state's total population, while during the third quarter of 1988 the MSAs generated 77 percent of all housing construction.

Three of the state's MSAs had particularly high levels of building activity. Northern Virginia (that portion of the Washington, D.C. MSA in Virginia) issued permits for 5,971 units, equivalent to 35 percent of the state total. The Norfolk–Virginia Beach–Portsmouth MSA issued 3,462 permits, a fifth of the state total. The Richmond–Petersburg MSA issued 3,077 permits, 18 percent of the total.

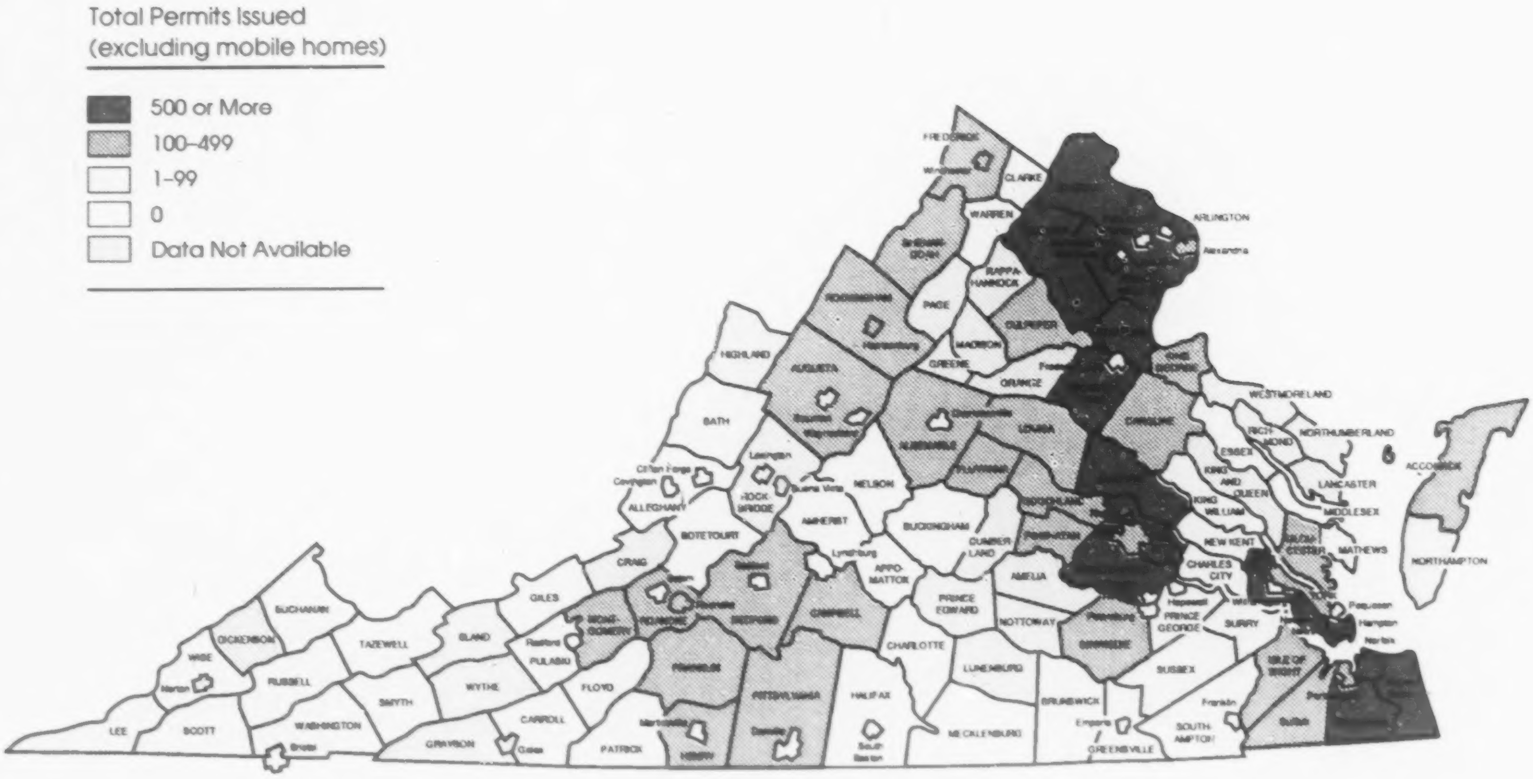
Individual localities where building activity was particularly strong include Fairfax County (3,039 permits), Henrico County (1,429), Prince William County (1,232), Virginia Beach City (1,120), Loudoun County (843), Chesterfield County (842), and Newport News City (505). See Figure 5 for additional information on the distribution of building permits for individual localities.

Fourth-Quarter Trends

During the fourth quarter 15,819 housing units were authorized for construction in the state, including permits for 549 mobile homes. Excluding mobile homes, the 15,270 single-family and multi-unit permits issued represent a 2 percent increase over the previous five fourth quarters, when an average of 15,000 permits were issued quarterly. Building activity during the quarter was greater than during the same quarter a year ago (up by 9.3 percent); but it was less than during the previous quarter (down by 8 percent).

A total of 9,974 single-family housing unit permits were issued in the fourth quarter, a decrease of about 2 percent from the five-year average of 10,200 units per quarter. Compared to the

FIGURE 5.
Total Permits Issued, July–December 1988



Total Permits Issued
(excluding mobile homes)
500 or More
100–499
1–99
0
Data Not Available
FREDERICK
Winchester
CLARKE
WARREN
SHENAN-DOAH
RAPPA-HANNOCK
ARLINGTON
Alexandria
PAGE
CULPEPER
ROCKINGHAM
Harrisonburg
MADISON
HIGHLAND
AUGUSTA
GREENE
ORANGE
Fredericksburg
KING GEORGE
WESTMORELAND
BATH
Staunton
Waynesboro
Charlottesville
ALBEMARLE
LOUISA
CAROLINE
RICH-MOND
NORTHUMBERLAND
ESSEX
ACCOMACK
Clifton Forge
Covington
Lexington
FLUVANNA
NELSON
KING AND QUEEN
LANCASTER
ALLEGHANY
ROCK-BRIDGE
Buena Vista
AMHERST
BUCKINGHAM
GOOCHLAND
KING WILLIAM
MIDDLESEX
BOTETOURT
Lynchburg
POWHATAN
CUMBER-LAND
NEW KENT
GLOUCESTER
MATHEWS
NORTHAMPTON
CRAIG
APPO-MATTOX
AMELIA
CHARLES CITY
Salem
PRINCE EDWARD
Hopewell
Williamsburg
YORK
Poquoson
Hampton
BUCHANAN
GILES
BEDFORD
CAMPBELL
NOTTOWAY
Petersburg
PRINCE GEORGE
SURRY
Norfolk
DICKENSON
TAZEWELL
BLAND
MONT-GOMERY
ROANOKE
DINWIDDIE
WISE
Radford
PULASKI
CHARLOTTE
SUSSEX
ISLE OF WIGHT
Norton
RUSSELL
FRANKLIN
LUNENBURG
SMYTH
WYTHE
FLOYD
PITTSYLVANIA
HALIFAX
BRUNSWICK
Franklin
Portsmouth
Suffolk
LEE
SCOTT
WASHINGTON
CARROLL
Martinsville
Emporia
SOUTH-AMPTON
Bristol
GRAYSON
Galax
PATRICK
HENRY
Danville
South Boston
MECKLENBURG
GREENSVILLE

same quarter a year ago, single-family permits increased 5.2 percent. However, between the third and fourth quarters of 1988 single-family permits declined by 19.4 percent. This decrease is much larger than the normal seasonal variation, which typically results in an 11 percent decline between the third and fourth quarters.

The value of all permits issued during the fourth quarter (excluding mobile homes) was $919.4 million, compared to $805.7 million during the same quarter a year ago, an increase of 14 percent. The total value of all single-family unit permits was $729.7 million, compared to $680.4 million a year ago, an increase of 7.2 percent.

During the fourth quarter, construction costs per unit decreased rapidly from their third-quarter levels. For all unit types combined the decrease was 6 percent, from $62,125 to $58,416 per unit. For single-family units the decrease was a more modest 2.8 percent, from $75,278 to $73,165.

Building activity in Virginia during the fourth quarter closely paralleled the national pattern. Between the third and fourth quarters the number of single-family unit permits issued decreased 19 percent in Virginia and 18 percent in the U.S. The total number of permits issued decreased 8 percent in the state and 12 percent in the nation. Comparing 1987 and 1988 fourth quarters, the number of single-family permits issued increased 7 percent in the U.S. and decreased 5 percent in Virginia, while the total number of permits issued increased 5 percent nationally and 9 percent in Virginia.

The concentration of building activity in the Commonwealth's planning districts showed the same geographic pattern as in the third quarter, although the rank of some of the planning districts changed. The Northern Virginia PD again ranked first, issuing 5,541 residential building permits, about 35 percent of the state total. The Southeastern Virginia PD ranked second, issuing 2,399 permits—15 percent of the total. Third was the Richmond Regional PD, with 1629 permits or 10 percent of all permits issued statewide. In fourth position came RADCO PD, which issued 1,555 permits, 9.8 percent of the state total. Fifth place belongs to the Peninsula PD, which issued 1,222 permits, 7.7 percent of the state total. Together these five planning districts accounted for 78 percent of all permits issued in Virginia.

The state's eight MSAs combined accounted for nearly four-fifths of the total number of permits issued in Virginia. Northern Virginia led with 6,553 permits, equal to 41 percent of the state total. The Norfolk–Virginia Beach–Portsmouth MSA ranked second, with 3,539 permits, or 22 percent of the state. The Richmond–Petersburg MSA was in third position, issuing 1,746 permits, equal to 11 percent of the state total. Of the five remaining MSAs, none had as much as 5 percent of the state total.

Twelve localities issued 500 or more building permits during the fourth quarter. These included Fairfax County (2,275 permits), Stafford County (1,012), Arlington County (950), Virginia Beach City (943), Prince William County (933), Chesterfield County (625), Loudoun County (619), Chesapeake City (577), Hampton City (531), Manassas City (524), Henrico County (520), and Norfolk City (517).

TABLE 3.
Residential Building Permits Issued in Virginia Localities, Third Quarter, 1988

		Total Units Authorized		Total Mobile Units		Total Private Units		Single Units	
Line	Jurisdiction	Number	$000	Number	$000	Number	$000	Number	$000
	COUNTIES								
1	Accomack	84	5,171.7	0	0.0	84	5,171.7	66	4,411.7
2	Albemarle	147	13,752.8	0	0.0	147	13,752.8	125	12,789.9
3	Alleghany	28	706.5	20	221.4	8	485.1	8	485.1
4	Amelia (NR)	—	—	—	—	—	—	—	—
5	Amherst	46	3,058.7	0	0.0	46	3,058.7	42	2,909.7
6	Apomattox	64	1,671.9	49	632.6	15	1,039.4	15	1,039.4
7	Arlington	358	43,219.3	0	0.0	358	43,219.3	81	9,252.4
8	Augusta	131	8,071.5	0	0.0	131	8,071.5	127	7,787.5
9	Bath[1]	2	74.0	0	0.0	2	74.0	2	74.0
10	Bedford	248	NA	134	NA	114	NA	105	NA
11	Bland (NR)	—	—	—	—	—	—	—	—
12	Botetourt	78	2,723.4	36	NA	42	2,723.4	42	2,723.4
13	Brunswick	78	1,910.7	60	928.7	18	982.0	18	982.0
14	Buchanan	13	639.5	0	0.0	13	639.5	13	639.5
15	Buckingham	65	1,283.5	52	578.3	13	705.1	13	705.1
16	Campbell	54	3,235.7	0	0.0	54	3,235.7	54	3,235.7
17	Caroline	66	4,129.3	0	0.0	66	4,129.3	66	4,129.3
18	Carroll	41	2,124.5	0	0.0	41	2,124.5	37	1,984.5
19	Charles City	15	973.4	0	0.0	15	973.4	15	973.4
20	Charlotte	13	759.5	0	0.0	13	759.5	13	759.5
21	Chesterfield	842	57,137.7	0	0.0	842	57,137.7	842	57,137.7
22	Clarke	33	3,833.0	0	0.0	33	3,833.0	33	3,833.0
23	Craig (NR)	—	—	—	—	—	—	—	—
24	Culpeper[2]	65	2,199.5	0	0.0	65	2,199.5	5	399.5
25	Cumberland (NR)	—	—	—	—	—	—	—	—
26	Dickenson (RA)	—	—	—	—	—	—	—	—
27	Dinwiddie	64	2,743.7	0	0.0	64	2,743.7	64	2,743.7
28	Essex	27	1,084.0	16	266.4	11	817.6	11	817.6
29	Fairfax	3,039	204,330.0	0	0.0	3,039	204,330.0	2,094	179,006.8
30	Fauquier[2]	361	62,348.4	0	0.0	361	62,348.4	361	62,348.4
31	Floyd	50	883.3	30	NA	20	883.3	20	883.3
32	Fluvanna	79	5,057.2	6	6.0	73	5,051.2	73	5,051.2
33	Franklin	142	9,212.3	0	0.0	142	9,212.3	142	9,212.3
34	Frederick	221	12,601.0	0	0.0	221	12,601.0	209	12,301.0
35	Giles	35	484.8	26	129.3	9	355.5	9	355.5
36	Gloucester[2]	118	10,441.4	0	0.0	118	10,441.4	118	10,441.4
37	Goochland	56	4,219.4	0	0.0	56	4,219.4	56	4,219.4
38	Grayson (NR)	—	—	—	—	—	—	—	—
39	Greene (NR)	—	—	—	—	—	—	—	—
40	Greensville	29	952.4	20	375.6	9	576.8	9	576.8

Duplex Units		3–4 Units		5+ Units		Demolitions			Total Housing Units Less Number of Demolitions	Line
Number	$000	Number	$000	Number	$000	Private	Public	Total		
4	60.0	0	0.0	14	700.0	0	0	0	84	1
0	0.0	22	963.0	0	0.0	0	0	0	147	2
0	0.0	0	0.0	0	0.0	5	0	5	23	3
—	—	—	—	—	—	—	—	—	—	4
4	149.0	0	0.0	0	0.0	0	0	0	46	5
0	0.0	0	0.0	0	0.0	0	0	0	64	6
0	0.0	0	0.0	277	33,966.9	0	0	0	358	7
0	0.0	4	284.0	0	0.0	4	0	4	127	8
0	0.0	0	0.0	0	0.0	0	0	0	2	9
0	0.0	0	0.0	9	NA	0	0	0	248	10
—	—	—	—	—	—	—	—	—	—	11
0	0.0	0	0.0	0	0.0	2	0	2	76	12
0	0.0	0	0.0	0	0.0	0	0	0	78	13
0	0.0	0	0.0	0	0.0	0	0	0	13	14
0	0.0	0	0.0	0	0.0	0	0	0	65	15
0	0.0	0	0.0	0	0.0	0	0	0	54	16
0	0.0	0	0.0	0	0.0	0	0	0	66	17
4	140.0	0	0.0	0	0.0	0	0	0	41	18
0	0.0	0	0.0	0	0.0	2	0	2	13	19
0	0.0	0	0.0	0	0.0	1	0	1	12	20
0	0.0	0	0.0	0	0.0	0	0	0	842	21
0	0.0	0	0.0	0	0.0	0	0	0	33	22
—	—	—	—	—	—	—	—	—	—	23
0	0.0	0	0.0	60	1,800.0	0	0	0	65	24
—	—	—	—	—	—	—	—	—	—	25
—	—	—	—	—	—	—	—	—	—	26
0	0.0	0	0.0	0	0.0	0	0	0	64	27
0	0.0	0	0.0	0	0.0	0	0	0	27	28
0	0.0	0	0.0	945	25,323.2	0	0	0	3,039	29
0	0.0	0	0.0	0	0.0	0	0	0	361	30
0	0.0	0	0.0	0	0.0	0	0	0	50	31
0	0.0	0	0.0	0	0.0	0	0	0	79	32
0	0.0	0	0.0	0	0.0	4	0	4	138	33
12	300.0	0	0.0	0	0.0	0	0	0	221	34
0	0.0	0	0.0	0	0.0	0	0	0	35	35
0	0.0	0	0.0	0	0.0	0	0	0	118	36
0	0.0	0	0.0	0	0.0	0	0	0	56	37
—	—	—	—	—	—	—	—	—	—	38
—	—	—	—	—	—	—	—	—	—	39
0	0.0	0	0.0	0	0.0	0	0	0	29	40

TABLE 3. (continued)
Residential Building Permits Issued in Virginia Localities, Third Quarter, 1988

		Total Units Authorized		Total Mobile Units		Total Private Units		Single Units	
Line	Jurisdiction	Number	$000	Number	$000	Number	$000	Number	$000
	COUNTIES (continued)								
41	Halifax	91	1,988.7	71	1,085.4	20	903.3	20	903.3
42	Hanover	338	17,722.2	0	0.0	338	17,722.2	338	17,722.2
43	Henrico	1,429	42,438.2	0	0.0	1,429	42,438.2	530	28,297.9
44	Henry	51	3,931.1	0	0.0	51	3,931.1	51	3,931.1
45	Highland (NR)	—	—	—	—	—	—	—	—
46	Isle of Wight	151	7,381.0	72	NA	79	7,381.0	71	7,201.1
47	James City	332	26,004.8	0	0.0	332	26,004.8	200	22,460.8
48	King and Queen (NR)	—	—	—	—	—	—	—	—
49	King George	167	8,842.6	45	NA	122	8,842.6	103	8,237.0
50	King William[2]	23	1,565.6	0	0.0	23	1,565.6	23	1,565.6
51	Lancaster (NR)	—	—	—	—	—	—	—	—
52	Lee	23	844.9	0	0.0	23	844.9	23	844.9
53	Loudoun	843	52,012.6	0	0.0	843	52,012.6	675	46,933.4
54	Louisa	76	3,252.7	0	0.0	76	3,252.7	76	3,252.7
55	Lunenburg (NR)	—	—	—	—	—	—	—	—
56	Madison (NR)	—	—	—	—	—	—	—	—
57	Mathews	13	NA	1	NA	12	NA	12	NA
58	Mecklenburg	24	1,450.3	0	0.0	24	1,450.3	24	1,450.3
59	Middlesex	50	2,537.2	20	237.8	30	2,299.4	24	1,559.4
60	Montgomery	67	5,051.2	0	0.0	67	5,051.2	65	4,991.2
61	Nelson	34	2,265.3	0	0.0	34	2,265.3	34	2,265.3
62	New Kent	63	3,688.0	0	0.0	63	3,688.0	63	3,688.0
63	Northampton (NR)	—	—	—	—	—	—	—	—
64	Northumberland (NR)	—	—	—	—	—	—	—	—
65	Nottoway (NR)	—	—	—	—	—	—	—	—
66	Orange (NR)	—	—	—	—	—	—	—	—
67	Page (NR)	—	—	—	—	—	—	—	—
68	Patrick	68	1,291.3	48	505.8	20	785.5	20	785.5
69	Pittsylvania	60	3,305.4	0	0.0	60	3,305.4	56	3,075.4
70	Powhatan	67	4,141.0	0	0.0	67	4,141.0	62	4,041.0
71	Prince Edward (NR)	—	—	—	—	—	—	—	—
72	Prince George	45	2,623.6	0	0.0	45	2,623.6	45	2,623.6
73	Prince William[3]	1,232	68,467.8	0	0.0	1,232	68,467.8	954	62,162.2
74	Pulaski	30	1,643.1	0	0.0	30	1,643.1	30	1,643.1
75	Rappahannock (NR)	—	—	—	—	—	—	—	—
76	Richmond (NR)	—	—	—	—	—	—	—	—
77	Roanoke	122	7,560.0	0	0.0	122	7,560.0	118	7,464.2
78	Rockbridge (RA)	—	—	—	—	—	—	—	—
79	Rockingham	120	7,358.0	0	0.0	120	7,358.0	92	5,938.0
80	Russell	12	768.0	0	0.0	12	768.0	12	768.0

Duplex Units		3–4 Units		5+ Units		Demolitions			Total Housing Units Less Number of Demolitions	
Number	$000	Number	$000	Number	$000	Private	Public	Total		Line
0	0.0	0	0.0	0	0.0	0	0	0	91	41
0	0.0	0	0.0	0	0.0	0	0	0	338	42
0	0.0	0	0.0	899	14,140.2	0	0	0	1,429	43
0	0.0	0	0.0	0	0.0	0	0	0	51	44
—	—	—	—	—	—	—	—	—	—	45
0	0.0	8	180.0	0	0.0	0	0	0	151	46
4	200.0	0	0.0	128	3,344.0	0	0	0	332	47
—	—	—	—	—	—	—	—	—	—	48
0	0.0	12	332.6	7	273.0	0	0	0	167	49
0	0.0	0	0.0	0	0.0	1	0	1	22	50
—	—	—	—	—	—	—	—	—	—	51
0	0.0	0	0.0	0	0.0	0	0	0	23	52
0	0.0	0	0.0	168	5,079.1	0	0	0	843	53
0	0.0	0	0.0	0	0.0	0	0	0	76	54
—	—	—	—	—	—	—	—	—	—	55
—	—	—	—	—	—	—	—	—	—	56
0	0.0	0	0.0	0	0.0	0	0	0	13	57
0	0.0	0	0.0	0	0.0	0	0	0	24	58
0	0.0	0	0.0	6	740.0	0	0	0	50	59
2	60.0	0	0.0	0	0.0	4	0	4	63	60
0	0.0	0	0.0	0	0.0	0	0	0	34	61
0	0.0	0	0.0	0	0.0	0	0	0	63	62
—	—	—	—	—	—	—	—	—	—	63
—	—	—	—	—	—	—	—	—	—	64
—	—	—	—	—	—	—	—	—	—	65
—	—	—	—	—	—	—	—	—	—	66
—	—	—	—	—	—	—	—	—	—	67
0	0.0	0	0.0	0	0.0	0	0	0	68	68
4	230.0	0	0.0	0	0.0	0	0	0	60	69
0	0.0	0	0.0	5	100.0	0	0	0	67	70
—	—	—	—	—	—	—	—	—	—	71
0	0.0	0	0.0	0	0.0	0	0	0	45	72
0	0.0	278	6,305.6	0	0.0	4	0	4	1,228	73
0	0.0	0	0.0	0	0.0	0	0	0	30	74
—	—	—	—	—	—	—	—	—	—	75
—	—	—	—	—	—	—	—	—	—	76
0	0.0	4	95.8	0	0.0	7	0	7	115	77
—	—	—	—	—	—	—	—	—	—	78
0	0.0	4	120.0	24	1,300.0	0	0	0	120	79
0	0.0	0	0.0	0	0.0	0	0	0	12	80

TABLE 3. (continued)
Residential Building Permits Issued in Virginia Localities, Third Quarter, 1988

		Total Units Authorized		Total Mobile Units		Total Private Units		Single Units	
Line	Jurisdiction	Number	$000	Number	$000	Number	$000	Number	$000
	COUNTIES (continued)								
81	Scott[2]	15	660.0	0	0.0	15	660.0	15	660.0
82	Shenandoah	123	6,578.2	0	0.0	123	6,578.2	92	5,623.2
83	Smyth	29	1,129.0	0	0.0	29	1,129.0	29	1,129.0
84	Southampton	52	1,977.2	32	574.2	20	1,403.0	20	1,403.0
85	Spotsylvania	396	41,191.6	0	0.0	396	41,191.6	396	41,191.6
86	Stafford	436	37,493.5	0	0.0	436	37,493.5	396	35,638.5
87	Surry	17	521.3	10	82.3	7	439.0	7	439.0
88	Sussex	15	220.0	13	120.0	2	100.0	2	100.0
89	Tazewell	39	4,856.6	0	0.0	39	4,856.6	39	4,856.6
90	Warren	98	7,831.1	6	96.9	92	7,734.3	92	7,734.3
91	Washington	44	2,012.5	0	0.0	44	2,012.5	44	2,012.5
92	Westmoreland (NR)	—	—	—	—	—	—	—	—
93	Wise[4]	31	1,782.2	0	0.0	31	1,782.2	31	1,782.2
94	Wythe (NR)	—	—	—	—	—	—	—	—
95	York	190	10,445.7	0	0.0	190	10,445.7	122	8,095.7
	CITIES								
96	Alexandria[5]	30	3,429.2	0	0.0	30	3,429.2	30	3,429.2
97	Bedford	2	50.0	1	NA	1	50.0	1	50.0
98	Bristol	11	527.0	0	0.0	11	527.0	11	527.0
99	Buena Vista (NR)	—	—	—	—	—	—	—	—
100	Charlottesville	18	877.4	0	0.0	18	877.4	18	877.4
101	Chesapeake	440	39,985.3	0	0.0	440	39,985.3	424	39,242.9
102	Clifton Forge	1	37.0	0	0.0	1	37.0	1	37.0
103	Colonial Heights	19	1,158.4	0	0.0	19	1,158.4	13	994.4
104	Covington	2	NA	0	0.0	2	NA	0	0.0
105	Danville	19	1,010.1	0	0.0	19	1,010.1	10	810.1
106	Emporia	10	1,420.0	1	25.0	9	1,395.0	1	61.0
107	Fairfax	0	0.0	0	0.0	0	0.0	0	0.0
108	Falls Church[2]	0	0.0	0	0.0	0	0.0	0	0.0
109	Franklin	6	541.9	0	0.0	6	541.9	6	541.9
110	Fredericksburg	50	1,804.5	0	0.0	50	1,804.5	50	1,804.5
111	Galax (NR)	—	—	—	—	—	—	—	—
112	Hampton	354	13,415.1	0	0.0	354	13,415.1	354	13,415.1
113	Harrisonburg	77	4,086.5	0	0.0	77	4,086.5	44	3,217.5
114	Hopewell	26	966.4	0	0.0	26	966.4	26	966.4
115	Lexington (NR)	—	—	—	—	—	—	—	—

Duplex Units		3–4 Units		5+ Units		Demolitions			Total Housing Units Less Number of Demolitions	Line
Number	$000	Number	$000	Number	$000	Private	Public	Total		
0	0.0	0	0.0	0	0.0	0	0	0	15	81
0	0.0	3	135.0	28	820.0	1	0	1	122	82
0	0.0	0	0.0	0	0.0	0	0	0	29	83
0	0.0	0	0.0	0	0.0	0	0	0	52	84
0	0.0	0	0.0	0	0.0	0	0	0	396	85
14	479.0	0	0.0	26	1,376.0	1	0	1	435	86
0	0.0	0	0.0	0	0.0	0	0	0	17	87
0	0.0	0	0.0	0	0.0	0	0	0	15	88
0	0.0	0	0.0	0	0.0	0	0	0	39	89
0	0.0	0	0.0	0	0.0	0	0	0	98	90
0	0.0	0	0.0	0	0.0	0	0	0	44	91
—	—	—	—	—	—	—	—	—	—	92
0	0.0	0	0.0	0	0.0	0	0	0	31	93
—	—	—	—	—	—	—	—	—	—	94
0	0.0	0	0.0	68	2,350.0	8	0	8	182	95
0	0.0	0	0.0	0	0.0	0	0	0	30	96
0	0.0	0	0.0	0	0.0	1	0	1	1	97
0	0.0	0	0.0	0	0.0	2	0	2	9	98
—	—	—	—	—	—	—	—	—	—	99
0	0.0	0	0.0	0	0.0	0	0	0	18	100
2	119.2	0	0.0	14	623.1	9	0	9	431	101
0	0.0	0	0.0	0	0.0	1	0	1	0	102
2	64.0	4	100.0	0	0.0	0	0	0	19	103
2	NA	0	0.0	0	0.0	1	0	1	1	104
0	0.0	0	0.0	9	200.0	9	0	9	10	105
0	0.0	3	90.0	5	1,244.0	5	0	5	5	106
0	0.0	0	0.0	0	0.0	0	0	0	0	107
0	0.0	0	0.0	0	0.0	0	0	0	0	108
0	0.0	0	0.0	0	0.0	0	0	0	6	109
0	0.0	0	0.0	0	0.0	2	0	2	48	110
—	—	—	—	—	—	—	—	—	—	111
0	0.0	0	0.0	0	0.0	0	0	0	354	112
2	80.0	20	549.0	11	240.0	0	0	0	77	113
0	0.0	0	0.0	0	0.0	61	0	61	-35	114
—	—	—	—	—	—	—	—	—	—	115

TABLE 3. (continued)
Residential Building Permits Issued in Virginia Localities, Third Quarter, 1988

		Total Units Authorized		Total Mobile Units		Total Private Units		Single Units	
Line	Jurisdiction	Number	$000	Number	$000	Number	$000	Number	$000
	CITIES (continued)								
116	Lynchburg	30	2,140.1	0	0.0	30	2,140.1	30	2,140.1
117	Manassas[1]	33	2,223.5	0	0.0	33	2,223.5	33	2,223.5
118	Manassas Park	0	0.0	0	0.0	0	0.0	0	0.0
119	Martinsville	6	415.4	0	0.0	6	415.4	6	415.4
120	Newport News	505	20,530.4	0	0.0	505	20,530.4	265	15,533.4
121	Norfolk	147	6,005.5	0	0.0	147	6,005.5	52	3,588.3
122	Norton (RA)	—	—	—	—	—	—	—	—
123	Petersburg	9	367.6	0	0.0	9	367.6	9	367.6
124	Poquoson[2]	14	1,789.0	0	0.0	14	1,789.0	14	1,789.0
125	Portsmouth	112	6,019.7	0	0.0	112	6,019.7	104	5,747.7
126	Radford	15	1,667.2	4	NA	11	1,667.2	8	577.5
127	Richmond	104	5,267.2	0	0.0	104	5,267.2	69	4,317.2
128	Roanoke[6]	30	989.6	0	0.0	30	989.6	9	560.6
129	Salem	34	2,103.3	0	0.0	34	2,103.3	34	2,103.3
130	South Boston	4	288.8	0	0.0	4	288.8	4	288.8
131	Staunton (NR)	—	—	—	—	—	—	—	—
132	Suffolk[2]	122	8,519.0	0	0.0	122	8,519.0	111	8,325.9
133	Virginia Beach	1,120	68,631.0	0	0.0	1,120	68,631.0	725	55,342.0
134	Waynesboro (NR)	—	—	—	—	—	—	—	—
135	Williamsburg	8	1,328.3	0	0.0	8	1,328.3	8	1,328.3
136	Winchester	130	4,835.0	0	0.0	130	4,835.0	18	2,786.0
	PLANNING DISTRICTS								
137	LENOWISCO	69	3,287.1	0	0.0	69	3,287.1	69	3,287.1
138	Cumberland Plateau	64	6,264.1	0	0.0	64	6,264.1	64	6,264.1
139	Mount Rogers	125	5,793.0	0	0.0	125	5,793.0	121	5,653.0
140	New River Valley	197	9,729.6	60	129.3	137	9,600.3	132	8,450.6
141	Fifth	295	14,119.8	56	221.4	239	13,898.4	212	13,373.6
142	Central Shenandoah	330	19,590.0	0	0.0	330	19,590.0	265	17,017.0
143	Lord Fairfax	605	35,678.3	6	96.9	599	35,581.5	444	32,277.5
144	Northern Virginia	5,535	373,682.4	0	0.0	5,535	373,682.4	3,867	303,007.5
145	Rappahannock-Rapidan	426	64,547.9	0	0.0	426	64,547.9	366	62,747.9
146	Thomas Jefferson	354	25,205.4	6	6.0	348	25,199.4	326	24,236.5
147	Central Virginia	444	10,156.4	184	632.6	260	9,523.9	247	9,374.9
148	West Piedmont	346	19,165.6	48	505.8	298	18,659.8	285	18,229.8
149	Southside	197	5,638.5	131	2,014.1	66	3,624.4	66	3,624.4
150	Piedmont	78	2,043.0	52	578.3	26	1,464.6	26	1,464.6
151	Richmond Regional	2,914	135,587.1	0	0.0	2,914	135,587.1	1,975	120,396.8

Duplex Units		3–4 Units		5+ Units		Demolitions			Total Housing Units Less Number of Demolitions	Line
Number	$000	Number	$000	Number	$000	Private	Public	Total		
0	0.0	0	0.0	0	0.0	9	0	9	21	116
0	0.0	0	0.0	0	0.0	0	0	0	33	117
0	0.0	0	0.0	0	0.0	0	0	0	0	118
0	0.0	0	0.0	0	0.0	9	0	9	—3	119
0	0.0	12	405.0	228	4,592.0	6	0	6	499	120
24	894.3	0	0.0	71	1,522.9	52	0	52	95	121
—	—	—	—	—	—	—	—	—	—	122
0	0.0	0	0.0	0	0.0	9	0	9	0	123
0	0.0	0	0.0	0	0.0	0	0	0	14	124
8	272.0	0	0.0	0	0.0	0	0	0	112	125
0	0.0	3	1,089.7	0	0.0	8	0	8	7	126
0	0.0	0	0.0	35	950.0	6	0	6	98	127
6	129.0	15	300.0	0	0.0	0	0	0	30	128
0	0.0	0	0.0	0	0.0	4	0	4	30	129
0	0.0	0	0.0	0	0.0	0	0	0	4	130
—	—	—	—	—	—	—	—	—	—	131
2	60.0	9	133.1	0	0.0	18	0	18	104	132
14	1,002.0	15	662.0	366	11,625.0	4	0	4	1,116	133
—	—	—	—	—	—	—	—	—	—	134
0	0.0	0	0.0	0	0.0	0	0	0	8	135
2	80.0	0	0.0	110	1,969.0	1	0	1	129	136
0	0.0	0	0.0	0	0.0	0	0	0	69	137
0	0.0	0	0.0	0	0.0	0	0	0	64	138
4	140.0	0	0.0	0	0.0	2	0	2	123	139
2	60.0	3	1,089.7	0	0.0	12	0	12	185	140
8	129.0	19	395.8	0	0.0	20	0	20	275	141
2	80.0	28	953.0	35	1,540.0	4	0	4	326	142
14	380.0	3	135.0	138	2,789.0	2	0	2	603	143
0	0.0	278	6,305.6	1,390	64,369.2	4	0	4	5,531	144
0	0.0	0	0.0	60	1,800.0	0	0	0	426	145
0	0.0	22	963.0	0	0.0	0	0	0	354	146
4	149.0	0	0.0	9	NA	10	0	10	434	147
4	230.0	0	0.0	9	200.0	22	0	22	324	148
0	0.0	0	0.0	0	0.0	0	0	0	197	149
0	0.0	0	0.0	0	0.0	1	0	1	77	150
0	0.0	0	0.0	939	15,190.2	8	0	8	2,906	151

TABLE 3. (continued)
Residential Building Permits Issued in Virginia Localities, Third Quarter, 1988

		Total Units Authorized		Total Mobile Units		Total Private Units		Single Units	
Line	Jurisdiction	Number	$000	Number	$000	Number	$000	Number	$000
	PLANNING DISTRICTS (continued)								
152	RADCO	1,115	93,461.5	45	NA	1,070	93,461.5	1,011	91,000.9
153	Northern Neck	0	0.0	0	0.0	0	0.0	0	0.0
154	Middle Peninsula	231	15,628.2	37	504.2	194	15,124.0	188	14,384.0
155	Crater	234	10,973.4	44	602.9	190	10,370.5	176	8,872.5
156	Southeastern Virginia	2,150	139,060.6	104	574.2	2,046	138,486.4	1,513	121,392.8
157	Peninsula	1,403	73,513.3	0	0.0	1,403	73,513.3	963	62,622.3
158	Accomack-Northampton	84	5,171.7	0	0.0	84	5,171.7	66	4,411.7
	METROPOLITAN STATISTICAL AREAS								
159	Bristol (Va. portion)	70	3,199.5	0	0.0	70	3,199.5	70	3,199.5
160	Charlottesville	244	19,687.4	6	6.0	238	19,681.4	216	18,718.5
161	Danville	79	4,315.5	0	0.0	79	4,315.5	66	3,885.5
162	Lynchburg	130	8,434.5	0	0.0	130	8,434.5	126	8,285.5
163	Norfolk	3,462	213,115.2	0	0.0	3,462	213,115.2	2,497	185,310.5
164	Northern Virginia	5,971	411,175.9	0	0.0	5,971	411,175.9	4,263	338,646.0
165	Richmond	3,077	143,446.8	0	0.0	3,077	143,446.8	2,132	128,092.5
166	Roanoke	264	13,376.3	36	NA	228	13,376.3	203	12,851.5
167	TOTAL METROPOLITAN	13,297	816,751.1	42	6.0	13,255	816,745.1	9,573	698,989.5
168	TOTAL NON-METROPOLITAN	3,899	251,545.8	731	5,859.7	3,168	245,686.2	2,809	233,100.0
169	TOTAL COUNTIES	13,708	865,867.5	767	5,840.7	12,941	860,026.9	9,894	758,680.5
170	TOTAL CITIES	3,488	202,429.4	6	25.0	3,482	202,404.4	2,488	173,409.0
171	VIRGINIA	17,196	1,068,296.9	773	5,865.7	16,423	1,062,431.3	12,382	932,089.5

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[1] Reported 7 months.
[2] Reported 8 months.
[3] Dumfries Town reported 8 months. The balance of Prince William County reported 9 months.
[4] St. Paul Town reported 5 months. The balance of Wise County reported 9 months.
[5] Reported 6 months.
[6] Reported 5 months.

NOTES: (RA)=reports annually; (NR)=did not report this quarter; NA=data not available.
The data reported by the Census Bureau are cumulative monthly totals indicating how many months were reported, but not which months. Consequently, notes here concerning number of months reported apply to the first three—quarters of the year, not specifically to the third quarter.

Duplex Units		3–4 Units		5+ Units		Demolitions			Total Housing Units Less Number of Demolitions	Line
Number	$000	Number	$000	Number	$000	Private	Public	Total		
14	479.0	12	332.6	33	1,649.0	3	0	3	1,112	152
0	0.0	0	0.0	0	0.0	0	0	0	0	153
0	0.0	0	0.0	6	740.0	1	0	1	230	154
2	64.0	7	190.0	5	1,244.0	75	0	75	159	155
50	2,347.5	32	975.1	451	13,771.0	83	0	83	2,067	156
4	200.0	12	405.0	424	10,286.0	14	0	14	1,389	157
4	60.0	0	0.0	14	700.0	0	0	0	84	158
0	0.0	0	0.0	0	0.0	2	0	2	68	159
0	0.0	22	963.0	0	0.0	0	0	0	244	160
4	230.0	0	0.0	9	200.0	9	0	9	70	161
4	149.0	0	0.0	0	0.0	9	0	9	121	162
54	2,547.5	36	1,200.1	875	24,057.0	97	0	97	3,365	163
14	479.0	278	6,305.6	1,416	65,745.2	5	0	5	5,966	164
2	64.0	4	100.0	939	15,190.2	78	0	78	2,999	165
6	129.0	19	395.8	0	0.0	13	0	13	251	166
84	3,598.5	359	8,964.5	3,239	105,192.4	213	0	213	13,084	167
28	720.0	57	2,780.3	274	9,086.0	48	0	48	3,851	168
48	1,618.0	335	8,416.0	2,664	91,312.4	44	0	44	13,664	169
64	2,700.5	81	3,328.8	849	22,966.0	217	0	217	3,271	170
112	4,318.5	416	11,744.8	3,513	114,278.4	261	0	261	16,935	171

TABLE 4.
Residential Building Permits Issued in Virginia Localities, Fourth Quarter, 1988

		Total Units Authorized		Total Mobile Units		Total Private Units		Single Units	
Line	Jurisdiction	Number	$000	Number	$000	Number	$000	Number	$000
	Counties								
1	Accomack	85	4,086.0	0	0.0	85	4,086.0	67	3,629.0
2	Albemarle	155	15,941.4	0	0.0	155	15,941.4	141	14,798.9
3	Alleghany	19	310.8	16	190.8	3	120.0	3	120.0
4	Amelia (NR)	—	—	—	—	—	—	—	—
5	Amherst	34	1,863.4	0	0.0	34	1,863.4	32	1,788.4
6	Apomattox	15	408.5	11	202.0	4	206.5	4	206.5
7	Arlington	950	70,346.5	0	0.0	950	70,346.5	51	4,176.5
8	Augusta	82	6,668.8	0	0.0	82	6,668.8	82	6,668.8
9	Bath	5	660.0	0	0.0	5	660.0	5	660.0
10	Bedford	189	NA	101	NA	88	NA	85	NA
11	Bland (NR)	—	—	—	—	—	—	—	—
12	Botetourt	64	3,107.2	23	0.0	41	3,107.2	41	3,107.2
13	Brunswick	45	851.2	40	558.6	5	292.6	5	292.6
14	Buchanan	8	409.3	0	0.0	8	409.3	8	409.3
15	Buckingham	51	1,008.8	43	584.8	8	424.0	8	424.0
16	Campbell	47	3,034.0	0	0.0	47	3,034.0	47	3,034.0
17	Caroline	67	3,637.9	0	0.0	67	3,637.9	63	3,517.9
18	Carroll	25	962.4	0	0.0	25	962.4	18	889.4
19	Charles City	8	510.5	0	0.0	8	510.5	8	510.5
20	Charlotte	11	530.0	0	0.0	11	530.0	11	530.0
21	Chesterfield	625	36,783.1	0	0.0	625	36,783.1	602	35,981.9
22	Clarke	20	2,615.0	0	0.0	20	2,615.0	20	2,615.0
23	Craig (NR)	—	—	—	—	—	—	—	—
24	Culpeper[1]	178	5,845.3	0	0.0	178	5,845.3	50	2,623.3
25	Cumberland (NR)	—	—	—	—	—	—	—	—
26	Dickenson (RA)	—	—	—	—	—	—	—	—
27	Dinwiddie	48	2,310.1	0	0.0	48	2,310.1	48	2,310.1
28	Essex	26	688.6	19	238.6	7	450.0	7	450.0
29	Fairfax	2,275	149,651.9	0	0.0	2,275	149,651.9	1,689	133,883.3
30	Fauquier[2]	179	28,503.5	0	0.0	179	28,503.5	175	28,456.5
31	Floyd	29	715.0	16	NA	13	715.0	13	715.0
32	Fluvanna	63	4,754.1	1	1.0	62	4,753.1	62	4,753.1
33	Franklin[2]	48	3,459.4	0	0.0	48	3,459.4	48	3,459.4
34	Frederick	168	11,189.7	0	0.0	168	11,189.7	168	11,189.7
35	Giles	22	117.0	19	NA	3	117.0	3	117.0
36	Gloucester	80	6,172.4	0	0.0	80	6,172.4	72	5,912.5
37	Goochland	47	4,438.0	0	0.0	47	4,438.0	47	4,438.0
38	Grayson (NR)	—	—	—	—	—	—	—	—
39	Greene (NR)	—	—	—	—	—	—	—	—
40	Greensville	21	592.6	15	252.9	6	339.7	6	339.7

Duplex Units		3–4 Units		5+ Units		Demolitions			Total Housing Units Less Number of Demolitions	Line
Number	$000	Number	$000	Number	$000	Private	Public	Total		
6	217.0	12	240.0	0	0.0	0	0	0	85	1
0	0.0	0	0.0	14	1,142.5	0	0	0	155	2
0	0.0	0	0.0	0	0.0	0	0	0	19	3
—	—	—	—	—	—	—	—	—	—	4
2	75.0	0	0.0	0	0.0	3	0	3	31	5
0	0.0	0	0.0	0	0.0	0	0	0	15	6
0	0.0	0	0.0	899	66,170.0	4	0	4	946	7
0	0.0	0	0.0	0	0.0	0	0	0	82	8
0	0.0	0	0.0	0	0.0	0	0	0	5	9
0	0.0	0	0.0	3	NA	0	0	0	189	10
—	—	—	—	—	—	—	—	—	—	11
0	0.0	0	0.0	0	0.0	1	0	1	63	12
0	0.0	0	0.0	0	0.0	0	0	0	45	13
0	0.0	0	0.0	0	0.0	0	0	0	8	14
0	0.0	0	0.0	0	0.0	0	0	0	51	15
0	0.0	0	0.0	0	0.0	1	0	1	46	16
0	0.0	4	120.0	0	0.0	0	0	0	67	17
0	0.0	0	0.0	7	73.0	0	0	0	25	18
0	0.0	0	0.0	0	0.0	1	0	1	7	19
0	0.0	0	0.0	0	0.0	0	0	0	11	20
0	0.0	0	0.0	23	801.3	0	0	0	625	21
0	0.0	0	0.0	0	0.0	0	0	0	20	22
—	—	—	—	—	—	—	—	—	—	23
0	0.0	0	0.0	128	3,222.0	0	0	0	178	24
—	—	—	—	—	—	—	—	—	—	25
—	—	—	—	—	—	—	—	—	—	26
0	0.0	0	0.0	0	0.0	0	0	0	48	27
0	0.0	0	0.0	0	0.0	1	0	1	25	28
0	0.0	0	0.0	586	15,768.6	0	0	0	2,275	29
4	47.0	0	0.0	0	0.0	0	0	0	179	30
0	0.0	0	0.0	0	0.0	0	0	0	29	31
0	0.0	0	0.0	0	0.0	0	0	0	63	32
0	0.0	0	0.0	0	0.0	0	0	0	48	33
0	0.0	0	0.0	0	0.0	0	0	0	168	34
0	0.0	0	0.0	0	0.0	0	0	0	22	35
8	260.0	0	0.0	0	0.0	0	0	0	80	36
0	0.0	0	0.0	0	0.0	0	0	0	47	37
—	—	—	—	—	—	—	—	—	—	38
—	—	—	—	—	—	—	—	—	—	39
0	0.0	0	0.0	0	0.0	0	0	0	21	40

TABLE 4. (continued)
Residential Building Permits Issued in Virginia Localities, Fourth Quarter, 1988

		Total Units Authorized		Total Mobile Units		Total Private Units		Single Units	
Line	Jurisdiction	Number	$000	Number	$000	Number	$000	Number	$000
	COUNTIES (continued)								
41	Halifax	86	2,308.9	60	1,310.4	26	998.4	26	998.4
42	Hanover	275	16,248.6	0	0.0	275	16,248.6	275	16,248.6
43	Henrico	520	31,196.0	0	0.0	520	31,196.0	508	30,908.3
44	Henry	64	4,123.3	0	0.0	64	4,123.3	54	3,863.3
45	Highland (NR)	—	—	—	—	—	—	—	—
46	Isle of Wight	110	5,384.3	49	NA	61	5,384.3	61	5,384.3
47	James City	190	18,171.8	0	0.0	190	18,171.8	166	17,155.8
48	King and Queen (NR)	—	—	—	—	—	—	—	—
49	King George	62	2,801.4	21	NA	41	2,801.4	41	2,801.4
50	King William[2]	34	1,931.5	0	0.0	34	1,931.5	34	1,931.5
51	Lancaster (NR)	—	—	—	—	—	—	—	—
52	Lee	8	357.7	0	0.0	8	357.7	8	357.7
53	Loudoun	619	34,590.6	0	0.0	619	34,590.6	404	28,090.5
54	Louisa	81	3,370.2	0	0.0	81	3,370.2	81	3,370.2
55	Lunenburg	—	—	—	—	—	—	—	—
56	Madison (NR)	—	—	—	—	—	—	—	—
57	Mathews	24	NA	4	NA	20	NA	20	NA
58	Mecklenburg	23	1,600.0	0	0.0	23	1,600.0	23	1,600.0
59	Middlesex	32	1,284.9	13	159.2	19	1,125.7	19	1,125.7
60	Montgomery	135	5,616.4	0	0.0	135	5,616.4	63	3,935.9
61	Nelson	37	2,348.3	0	0.0	37	2,348.3	37	2,348.3
62	New Kent	30	1,789.0	0	0.0	30	1,789.0	30	1,789.0
63	Northampton (NR)	—	—	—	—	—	—	—	—
64	Northumberland (NR)	—	—	—	—	—	—	—	—
65	Nottoway (NR)	—	—	—	—	—	—	—	—
66	Orange (NR)	—	—	—	—	—	—	—	—
67	Page (NR)	—	—	—	—	—	—	—	—
68	Patrick	50	1,093.8	36	347.8	14	746.0	14	746.0
69	Pittsylvania	62	3,500.4	0	0.0	62	3,500.4	58	3,426.4
70	Powhatan	42	2,671.0	0	0.0	42	2,671.0	42	2,671.0
71	Prince Edward (NR)	—	—	—	—	—	—	—	—
72	Prince George	37	2,665.4	0	0.0	37	2,665.4	37	2,665.4
73	Prince William[3]	933	48,951.0	0	0.0	933	48,951.0	532	38,681.3
74	Pulaski	20	1,143.4	0	0.0	20	1,143.4	20	1,143.4
75	Rappahannock (R)	—	—	—	—	—	—	—	—
76	Richmond (NR)	—	—	—	—	—	—	—	—
77	Roanoke	87	5,338.7	0	0.0	87	5,338.7	87	5,338.7
78	Rockbridge (RA)	—	—	—	—	—	—	—	—
79	Rockingham	71	5,066.9	0	0.0	71	5,066.9	69	4,926.9
80	Russell	11	525.0	0	0.0	11	525.0	11	525.0

Duplex Units		3–4 Units		5+ Units		Demolitions			Total Housing Units Less Number of Demolitions	Line
Number	$000	Number	$000	Number	$000	Private	Public	Total		
0	0.0	0	0.0	0	0.0	0	0	0	86	41
0	0.0	0	0.0	0	0.0	0	0	0	275	42
0	0.0	0	0.0	12	287.7	5	0	5	515	43
0	0.0	4	110.0	6	150.0	0	0	0	64	44
—	—	—	—	—	—	—	—	—	—	45
0	0.0	0	0.0	0	0.0	0	0	0	110	46
8	560.0	0	0.0	16	456.0	0	0	0	190	47
—	—	—	—	—	—	—	—	—	—	48
0	0.0	0	0.0	0	0.0	0	0	0	62	49
0	0.0	0	0.0	0	0.0	2	0	2	32	50
—	—	—	—	—	—	—	—	—	—	51
0	0.0	0	0.0	0	0.0	0	0	0	8	52
0	0.0	0	0.0	215	6,500.1	0	0	0	619	53
0	0.0	0	0.0	0	0.0	0	0	0	81	54
—	—	—	—	—	—	—	—	—	—	55
—	—	—	—	—	—	—	—	—	—	56
0	0.0	0	0.0	0	0.0	0	0	0	24	57
0	0.0	0	0.0	0	0.0	0	0	0	23	58
0	0.0	0	0.0	0	0.0	0	0	0	32	59
0	0.0	0	0.0	72	1,680.5	3	0	3	132	60
0	0.0	0	0.0	0	0.0	0	0	0	37	61
0	0.0	0	0.0	0	0.0	2	0	2	28	62
—	—	—	—	—	—	—	—	—	—	63
—	—	—	—	—	—	—	—	—	—	64
—	—	—	—	—	—	—	—	—	—	65
—	—	—	—	—	—	—	—	—	—	66
—	—	—	—	—	—	—	—	—	—	67
0	0.0	0	0.0	0	0.0	0	0	0	50	68
4	74.0	0	0.0	0	0.0	1	0	1	61	69
0	0.0	0	0.0	0	0.0	0	0	0	42	70
—	—	—	—	—	—	—	—	—	—	71
0	0.0	0	0.0	0	0.0	0	0	0	37	72
0	0.0	0	0.0	401	10,269.7	3	0	3	930	73
0	0.0	0	0.0	0	0.0	2	0	2	18	74
—	—	—	—	—	—	—	—	—	—	75
—	—	—	—	—	—	—	—	—	—	76
0	0.0	0	0.0	0	0.0	5	0	5	82	77
—	—	—	—	—	—	—	—	—	—	78
2	140.0	0	0.0	0	0.0	0	0	0	71	79
0	0.0	0	0.0	0	0.0	0	0	0	11	80

TABLE 4. (continued)
Residential Building Permits Issued in Virginia Localities, Fourth Quarter, 1988

		Total Units Authorized		Total Mobile Units		Total Private Units		Single Units	
Line	Jurisdiction	Number	$000	Number	$000	Number	$000	Number	$000
	COUNTIES (continued)								
81	Scott	40	1,055.7	0	0.0	40	1,055.7	15	590.7
82	Shenandoah	141	7,292.7	0	0.0	141	7,292.7	101	6,437.1
83	Smyth	11	600.0	0	0.0	11	600.0	9	484.0
84	Southampton	47	1,318.8	34	534.2	13	784.6	13	784.6
85	Spotsylvania	410	44,117.8	0	0.0	410	44,117.8	410	44,117.8
86	Stafford	1,012	51,022.3	0	0.0	1,012	51,022.3	408	35,167.1
87	Surry	17	776.2	5	61.0	12	715.2	12	715.2
88	Sussex	24	413.7	18	249.2	6	164.5	4	119.5
89	Tazewell	27	1,748.2	0	0.0	27	1,748.2	22	1,662.2
90	Warren	0	0.0	0	0.0	0	0.0	0	0.0
91	Washington	29	1,083.9	0	0.0	29	1,083.9	29	1,083.9
92	Westmoreland (NR)	—	—	—	—	—	—	—	—
93	Wise[4]	10	512.6	0	0.0	10	512.6	10	512.6
94	Wythe (NR)	—	—	—	—	—	—	—	—
95	York	156	9,417.4	0	0.0	156	9,417.4	84	7,559.4
	CITIES								
96	Alexandria	188	14,989.8	0	0.0	188	14,989.8	82	8,731.2
97	Bedford	10	304.0	0	0.0	10	304.0	0	0.0
98	Bristol	11	498.0	0	0.0	11	498.0	11	498.0
99	Buena Vista (NR)	—	—	—	—	—	—	—	—
100	Charlottesville	43	1,537.6	0	0.0	43	1,537.6	12	484.7
101	Chesapeake	577	37,171.4	0	0.0	577	37,171.4	317	28,941.3
102	Clifton Forge[1]	2	100.0	0	0.0	2	100.0	2	100.0
103	Colonial Heights	10	852.5	0	0.0	10	852.5	10	852.5
104	Covington	0	0.0	0	0.0	0	0.0	0	0.0
105	Danville	8	498.1	0	0.0	8	498.1	8	498.1
106	Emporia	1	42.0	0	0.0	1	42.0	1	42.0
107	Fairfax	36	4,049.2	0	0.0	36	4,049.2	36	4,049.2
108	Falls Church	16	3,519.2	0	0.0	16	3,519.2	16	3,519.2
109	Franklin	5	411.2	0	0.0	5	411.2	5	411.2
110	Fredericksburg	4	536.3	0	0.0	4	536.3	4	536.3
111	Galax (NR)	—	—	—	—	—	—	—	—
112	Hampton	531	20,059.8	0	0.0	531	20,059.8	481	18,801.8
113	Harrisonburg	254	10,668.2	0	0.0	254	10,668.2	84	5,863.2
114	Hopewell	16	537.8	0	0.0	16	537.8	14	492.8
115	Lexington (NR)	—	—	—	—	—	—	—	—

Duplex Units		3–4 Units		5+ Units		Demolitions			Total Housing Units Less Number of Demolitions	Line
Number	$000	Number	$000	Number	$000	Private	Public	Total		
0	0.0	4	77.3	21	387.7	0	0	0	40	81
0	0.0	0	0.0	40	855.5	0	0	0	141	82
2	116.0	0	0.0	0	0.0	0	0	0	11	83
0	0.0	0	0.0	0	0.0	0	0	0	47	84
0	0.0	0	0.0	0	0.0	2	0	2	408	85
0	0.0	32	408.0	572	15,447.2	1	0	1	1,011	86
0	0.0	0	0.0	0	0.0	0	0	0	17	87
2	45.0	0	0.0	0	0.0	0	0	0	24	88
0	0.0	0	0.0	5	86.0	0	0	0	27	89
0	0.0	0	0.0	0	0.0	0	0	0	0	90
0	0.0	0	0.0	0	0.0	0	0	0	29	91
—	—	—	—	—	—	—	—	—	—	92
0	0.0	0	0.0	0	0.0	0	0	0	10	93
—	—	—	—	—	—	—	—	—	—	94
0	0.0	8	252.0	64	1,606.0	1	0	1	155	95
0	0.0	0	0.0	106	6,258.6	19	0	19	169	96
10	304.0	0	0.0	0	0.0	1	0	1	9	97
0	0.0	0	0.0	0	0.0	6	0	6	5	98
—	—	—	—	—	—	—	—	—	—	99
8	252.9	0	0.0	23	800.0	8	0	8	35	100
30	916.1	0	0.0	230	7,314.0	14	0	14	563	101
0	0.0	0	0.0	0	0.0	0	0	0	2	102
0	0.0	0	0.0	0	0.0	0	0	0	10	103
0	0.0	0	0.0	0	0.0	4	0	4	—4	104
0	0.0	0	0.0	0	0.0	5	0	5	3	105
0	0.0	0	0.0	0	0.0	2	0	2	—1	106
0	0.0	0	0.0	0	0.0	1	0	1	35	107
0	0.0	0	0.0	0	0.0	0	0	0	16	108
0	0.0	0	0.0	0	0.0	0	0	0	5	109
0	0.0	0	0.0	0	0.0	0	0	0	4	110
—	—	—	—	—	—	—	—	—	—	111
0	0.0	0	0.0	50	1,258.0	1	0	1	530	112
2	150.0	55	1,240.0	113	3,415.0	0	0	0	254	113
2	45.0	0	0.0	0	0.0	1	0	1	15	114
—	—	—	—	—	—	—	—	—	—	115

TABLE 4. (continued)
Residential Building Permits Issued in Virginia Localities, Fourth Quarter, 1988

		Total Units Authorized		Total Mobile Units		Total Private Units		Single Units	
Line	Jurisdiction	Number	$000	Number	$000	Number	$000	Number	$000
	CITIES (continued)								
116	Lynchburg	52	2,277.9	0	0.0	52	2,277.9	36	1,765.9
117	Manassas	524	20,917.9	0	0.0	524	20,917.9	154	11,347.6
118	Manassas Park	0	0.0	0	0.0	0	0.0	0	0.0
119	Martinsville	11	478.5	0	0.0	11	478.5	5	233.5
120	Newport News	324	12,697.2	0	0.0	324	12,697.2	210	10,333.2
121	Norfolk	517	12,509.6	0	0.0	517	12,509.6	62	3,051.8
122	Norton (RA)	—	—	—	—	—	—	—	—
123	Petersburg	6	118.9	0	0.0	6	118.9	4	110.9
124	Poquoson[2]	9	1,017.0	0	0.0	9	1,017.0	9	1,017.0
125	Portsmouth	30	1,790.4	0	0.0	30	1,790.4	24	1,580.4
126	Radford	33	1,123.2	5	NA	28	1,123.2	5	535.2
127	Richmond	82	4,453.6	0	0.0	82	4,453.6	82	4,453.6
128	Roanoke[2]	88	4,277.3	0	0.0	88	4,277.3	61	3,609.3
129	Salem	15	738.9	0	0.0	15	738.9	15	738.9
130	South Boston	4	179.7	0	0.0	4	179.7	4	179.7
131	Staunton (NR)	—	—	—	—	—	—	—	—
132	Suffolk[2]	170	9,237.3	0	0.0	170	9,237.3	78	5,998.7
133	Virginia Beach	943	57,074.1	0	0.0	943	57,074.1	591	44,046.0
134	Waynesboro (NR)	—	—	—	—	—	—	—	—
135	Williamsburg	12	1,902.0	0	0.0	12	1,902.0	12	1,902.0
136	Winchester	31	1,899.0	0	0.0	31	1,899.0	13	1,745.0
	PLANNING DISTRICTS								
137	LENOWISCO	58	1,926.0	0	0.0	58	1,926.0	33	1,461.0
138	Cumberland. Plateau	46	2,682.5	0	0.0	46	2,682.5	41	2,596.5
139	Mount Rogers	76	3,144.3	0	0.0	76	3,144.3	67	2,955.3
140	New River Valley	239	8,715.0	40	NA	199	8,715.0	104	6,446.5
141	Fifth	275	13,872.9	39	190.8	236	13,682.1	209	13,014.1
142	Central Shenandoah	412	23,063.9	0	0.0	412	23,063.9	240	18,118.9
143	Lord Fairfax	360	22,996.4	0	0.0	360	22,996.4	302	21,986.8
144	Northern Virginia	5,541	347,016.1	0	0.0	5,541	347,016.1	2,964	232,478.8
145	Rappahannock-Rapidan	357	34,348.8	0	0.0	357	34,348.8	225	31,079.8
146	Thomas Jefferson	379	27,951.6	1	1.0	378	27,950.6	333	25,755.2
147	Central Virginia	347	7,887.8	112	202.0	235	7,685.8	204	6,794.8
148	West Piedmont	243	13,153.5	36	347.8	207	12,805.7	187	12,226.7
149	Southside	158	4,939.8	100	1,869.0	58	3,070.7	58	3,070.7
150	Piedmont	62	1,538.8	43	584.8	19	954.0	19	954.0
151	Richmond Regional	1,629	98,089.8	0	0.0	1,629	98,089.8	1,594	97,000.9

Duplex Units		3–4 Units		5+ Units		Demolitions			Total Housing Units Less Number of Demolitions	Line
Number	$000	Number	$000	Number	$000	Private	Public	Total		
16	512.0	0	0.0	0	0.0	5	0	5	47	116
0	0.0	0	0.0	370	9,570.2	1	0	1	523	117
0	0.0	0	0.0	0	0.0	0	0	0	0	118
0	0.0	6	245.0	0	0.0	3	0	3	8	119
0	0.0	12	288.0	102	2,076.0	8	0	8	316	120
34	780.4	3	70.0	418	8,607.3	309	0	309	208	121
—	—	—	—	—	—	—	—	—	—	122
2	8.0	0	0.0	0	0.0	5	0	5	1	123
0	0.0	0	0.0	0	0.0	1	0	1	8	124
6	210.0	0	0.0	0	0.0	38	0	38	—8	125
0	0.0	0	0.0	23	588.0	6	0	6	27	126
0	0.0	0	0.0	0	0.0	44	0	44	38	127
6	103.0	0	0.0	21	565.0	16	0	16	72	128
0	0.0	0	0.0	0	0.0	3	0	3	12	129
0	0.0	0	0.0	0	0.0	0	0	0	4	130
—	—	—	—	—	—	—	—	—	—	131
10	737.3	4	583.3	78	1,918.0	33	0	33	137	132
26	1,339.4	136	5,072.0	190	6,616.7	30	0	30	913	133
—	—	—	—	—	—	—	—	—	—	134
0	0.0	0	0.0	0	0.0	0	0	0	12	135
0	0.0	12	54.0	6	100.0	7	0	7	24	136
0	0.0	4	77.3	21	387.7	0	0	0	58	137
0	0.0	0	0.0	5	86.0	0	0	0	46	138
2	116.0	0	0.0	7	73.0	6	0	6	70	139
0	0.0	0	0.0	95	2,268.5	11	0	11	228	140
6	103.0	0	0.0	21	565.0	29	0	29	246	141
4	290.0	55	1,240.0	113	3,415.0	0	0	0	412	142
0	0.0	12	54.0	46	955.5	7	0	7	353	143
0	0.0	0	0.0	2,577	114,537.2	28	0	28	5,513	144
4	47.0	0	0.0	128	3,222.0	0	0	0	357	145
8	252.9	0	0.0	37	1,942.5	8	0	8	371	146
28	891.0	0	0.0	3	NA	10	0	10	337	147
4	74.0	10	355.0	6	150.0	9	0	9	234	148
0	0.0	0	0.0	0	0.0	0	0	0	158	149
0	0.0	0	0.0	0	0.0	0	0	0	62	150
0	0.0	0	0.0	35	1,089.0	52	0	52	1,577	151

TABLE 4. (continued)
Residential Building Permits Issued in Virginia Localities, Fourth Quarter, 1988

		Total Units Authorized		Total Mobile Units		Total Private Units		Single Units	
Line	Jurisdiction	Number	$000	Number	$000	Number	$000	Number	$000
	PLANNING DISTRICTS (continued)								
152	RADCO	1,555	102,115.7	21	NA	1,534	102,115.7	926	86,140.5
153	Northern Neck	0	0.0	0	0.0	0	0.0	0	0.0
154	Middle Peninsula	196	10,077.4	36	397.8	160	9,679.6	152	9,419.7
155	Crater	180	8,309.2	38	563.1	142	7,746.1	136	7,648.1
156	Southeastern Virginia	2,399	124,897.1	83	534.2	2,316	124,362.9	1,151	90,198.3
157	Peninsula	1,222	63,265.2	0	0.0	1,222	63,265.2	962	56,769.2
158	Accomack-Northampton	85	4,086.0	0	0.0	85	4,086.0	67	3,629.0
	METROPOLITAN STATISTICAL AREAS								
159	Bristol (Va. portion)	80	2,637.6	0	0.0	80	2,637.6	55	2,172.6
160	Charlottesville	261	22,233.1	1	1.0	260	22,232.1	215	20,036.7
161	Danville	70	3,998.5	0	0.0	70	3,998.5	66	3,924.5
162	Lynchburg	133	7,175.3	0	0.0	133	7,175.3	115	6,588.3
163	Norfolk	3,539	187,220.4	0	0.0	3,539	187,220.4	2,106	146,299.9
164	Northern Virginia	6,553	398,038.4	0	0.0	6,553	398,038.4	3,372	267,645.9
165	Richmond	1,746	104,574.5	0	0.0	1,746	104,574.5	1,707	103,432.6
166	Roanoke	254	13,462.1	23	NA	231	13,462.1	204	12,794.1
167	TOTAL METROPOLITAN.	12,636	739,339.9	24	1.0	12,612	739,338.9	7,840	562,894.6
168	TOTAL NON-METROPOLITAN	3,183	184,737.9	525	4,689.5	2,658	180,048.3	2,134	166,850.2
169	TOTAL COUNTIES	11,256	695,610.2	544	4,690.5	10,712	690,919.6	7,526	563,274.6
170	TOTAL CITIES	4,563	228,467.6	5	NA	4,558	228,467.6	2,448	166,470.2
171	VIRGINIA	15,819	924,077.8	549	4,690.5	15,270	919,387.2	9,974	729,744.8

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[1] Reported 10 months.

[2] Reported 11 months.

[3] Dumfries Town reported 8 months. The balance of Prince William County reported 12 months.

[4] St. Paul Town reported 11 months. The balance of Wise County reported 12 months.

NOTES: (RA)=reports annually; (NR)=did not report this quarter; NA=data not available.
The data reported by the Census Bureau are cumulative monthly totals indicating how many months were reported, but not which months. Consequently, notes here concerning number of months reported apply to the entire year, not specifically to the fourth quarter.

Duplex Units		3–4 Units		5+ Units		Demolitions			Total Housing Units Less Number of Demolitions	Line
Number	$000	Number	$000	Number	$000	Private	Public	Total		
0	0.0	36	528.0	572	15,447.2	3	0	3	1,552	152
0	0.0	0	0.0	0	0.0	0	0	0	0	153
8	260.0	0	0.0	0	0.0	3	0	3	193	154
6	98.0	0	0.0	0	0.0	8	0	8	172	155
106	3,983.2	143	5,725.3	916	24,456.0	424	0	424	1,975	156
8	560.0	20	540.0	232	5,396.0	11	0	11	1,211	157
6	217.0	12	240.0	0	0.0	0	0	0	85	158
0	0.0	4	77.3	21	387.7	6	0	6	74	159
8	252.9	0	0.0	37	1,942.5	8	0	8	253	160
4	74.0	0	0.0	0	0.0	6	0	6	64	161
18	587.0	0	0.0	0	0.0	9	0	9	124	162
122	4,803.2	163	6,265.3	1,148	29,852.0	435	0	435	3,104	163
0	0.0	32	408.0	3,149	129,984.4	29	0	29	6,524	164
4	53.0	0	0.0	35	1,089.0	58	0	58	1,688	165
6	103.0	0	0.0	21	565.0	25	0	25	229	166
162	5,873.1	199	6,750.6	4,411	163,820.6	576	0	576	12,060	167
28	1,019.0	93	2,009.0	403	10,170.0	33	0	33	3,150	168
38	1,534.0	64	1,207.3	3,084	124,903.8	38	0	38	11,218	169
152	5,358.1	228	7,552.3	1,730	49,086.8	571	0	571	3,992	170
190	6,892.1	292	8,759.6	4,814	173,990.6	609	0	609	15,210	171

TABLE 5.
Third-Quarter Residential Building Permits, 1980–88

	1988	1987	1986	1985	1984	1983	1982	1981	1980
COUNTIES									
Accomack	84	66	97	78	59	86	58	35	60
Albemarle	147	155	257	178	152	246	109	111	209
Alleghany	28	34	43	39	58	36	NA	NA	6
Amelia	NA	NA	NA	42	19	33	12	14	15
Amherst	46	30	76	87	60	68	53	70	88
Apomattox	64	52	50	48	47	25	65	35	40
Arlington	358	108	350	241	33	562	117	36	113
Augusta	131	132	206	151	161	142	114	100	133
Bath	2	NA	13	16	NA	NA	NA	NA	NA
Bedford	248	298	NA	NA	89	99	46	50	143
Bland	NA	NA	21	48	NA	NA	NA	NA	NA
Botetourt	78	49	NA	39	41	36	24	33	61
Brunswick	78	74	NA	37	30	43	43	46	48
Buchanan	13	7	82	84	92	71	107	131	108
Buckingham	65	NA	NA	50	NA	NA	NA	NA	NA
Campbell	54	91	131	277	157	179	160	187	231
Caroline	66	65	34	47	59	50	43	59	63
Carroll	41	32	107	101	99	79	93	97	78
Charles City	15	16	21	19	NA	11	NA	NA	NA
Charlotte	13	16	34	38	44	11	9	16	6
Chesterfield	842	952	822	1,367	843	818	513	430	1,138
Clarke	33	31	22	22	13	10	8	11	6
Craig	NA	NA	NA	22	NA	NA	NA	NA	NA
Culpeper	65	56	17	38	36	84	17	31	37
Cumberland	NA	NA	NA	NA	NA	6	5	6	13
Dickenson	NA	NA	NA	NA	52	92	65	83	95
Dinwiddie	64	33	51	52	52	45	43	41	36
Essex	27	NA	NA	NA	NA	17	14	11	20
Fairfax	3,039	4,054	2,734	3,360	3,015	3,433	1,133	1,568	2,317
Fauquier	361	NA	163	265	97	196	58	77	122
Floyd	50	40	21	45	12	27	11	19	19
Fluvanna	79	73	NA	38	26	42	20	18	37
Franklin	142	116	153	199	263	228	109	51	79
Frederick	221	199	168	331	141	95	74	60	110
Giles	35	35	40	30	NA	NA	NA	NA	NA
Gloucester	118	119	353	258	356	266	107	104	143
Goochland	56	45	79	53	37	44	49	29	25
Grayson	NA	NA	71	63	57	52	48	55	56
Greene	NA	NA	NA	32	35	35	34	40	45
Greensville	29	25	NA	NA	NA	NA	NA	22	35

TABLE 5. (continued)
Third-Quarter Residential Building Permits, 1980–88

	1988	1987	1986	1985	1984	1983	1982	1981	1980
COUNTIES (continued)									
Halifax	91	NA	20	180	106	111	83	96	51
Hanover	338	283	439	378	150	139	94	66	207
Henrico	1,429	690	507	714	514	448	324	392	422
Henry	51	106	223	66	181	148	143	113	145
Highland	NA	NA	NA	NA	13	14	16	8	12
Isle of Wight	151	NA	88	NA	NA	74	86	NA	152
James City	332	328	227	194	179	235	110	70	65
King and Queen	NA	NA	NA	NA	NA	33	26	11	20
King George	167	63	94	56	45	35	35	28	41
King William	23	31	35	14	22	17	13	7	21
Lancaster	NA	48	32	45	26	60	30	24	33
Lee	23	22	88	77	114	43	114	131	154
Loudoun	843	852	756	515	359	389	215	100	98
Louisa	76	109	172	86	98	57	52	79	58
Lunenburg	NA	NA	NA	25	NA	NA	NA	NA	NA
Madison	NA	30	17	18	NA	19	17	12	19
Mathews	13	NA	NA	NA	39	27	19	17	5
Mecklenburg	24	32	109	75	85	80	111	74	90
Middlesex	50	NA	NA	NA	NA	42	29	18	14
Montgomery	67	146	93	124	83	28	194	271	208
Nelson	34	32	65	86	67	80	57	36	45
New Kent	63	61	53	35	37	35	27	14	31
Northampton	NA	NA	NA	NA	120	24	20	10	18
Northumberland	NA	55	42	51	NA	31	37	31	50
Nottoway	NA	NA	NA	27	NA	NA	NA	NA	NA
Orange	NA	86	NA	91	43	70	37	36	53
Page	NA	56	68	45	41	32	34	44	47
Patrick	68	74	NA	NA	66	68	48	59	66
Pittsylvania	60	93	274	195	250	317	264	187	242
Powhatan	67	97	57	40	27	37	16	17	29
Prince Edward	NA	NA	NA	43	NA	33	23	68	28
Prince George	45	42	55	45	57	65	42	26	77
Prince William	1,232	1,670	1,305	932	397	662	410	371	504
Pulaski	30	21	90	75	89	66	73	71	110
Rappahannock	NA	29	NA	14	NA	8	14	8	6
Richmond	NA	27	25	4	NA	7	14	14	12
Roanoke	122	200	248	277	122	154	83	87	110
Rockbridge	NA	NA	29	59	51	59	38	12	30
Rockingham	120	211	256	236	120	126	191	163	202
Russell	12	20	108	112	105	116	148	133	151

TABLE 5. (continued)
Third-Quarter Residential Building Permits, 1980–88

	1988	1987	1986	1985	1984	1983	1982	1981	1980
COUNTIES (continued)									
Scott	15	7	68	97	86	70	56	97	85
Shenandoah	123	143	109	112	70	88	63	129	65
Smyth	29	36	84	106	88	55	47	69	103
Southampton	52	NA	45	33	36	31	24	83	31
Spotsylvania	396	489	432	299	246	203	92	83	154
Stafford	436	324	266	246	64	NA	270	63	166
Surry	17	29	47	26	NA	NA	NA	NA	NA
Sussex	15	27	27	31	NA	NA	NA	NA	NA
Tazewell	39	39	126	165	193	176	176	213	205
Warren	98	179	76	59	102	49	13	23	51
Washington	44	80	145	150	125	104	106	63	200
Westmoreland	NA	47	44	31	32	32	21	8	17
Wise	31	9	112	145	146	158	32	127	144
Wythe	NA	NA	89	87	NA	87	62	112	101
York	190	171	152	474	69	69	60	68	61
CITIES									
Alexandria	30	28	29	38	NA	25	121	109	383
Bedford	2	12	5	NA	NA	8	5	10	12
Bristol	11	7	26	14	135	22	5	21	19
Buena Vista	NA	NA	NA	42	NA	NA	NA	NA	NA
Charlottesville	18	9	12	21	23	46	18	29	144
Chesapeake	440	508	1,118	745	590	556	199	88	190
Clifton Forge	1	1	NA	NA	NA	NA	NA	NA	NA
Colonial Heights	19	22	13	7	36	7	42	12	11
Covington	2	2	1	10	NA	NA	NA	NA	NA
Danville	19	21	13	30	22	30	7	80	17
Emporia	10	2	NA	3	2	1	2	4	2
Fairfax	0	73	15	17	15	4	0	3	12
Falls Church	0	0	0	0	1	2	1	0	2
Franklin	6	NA	NA	13	2	20	5	1	5
Fredericksburg	50	16	2	10	20	3	1	20	NA
Galax	NA	NA	14	12	NA	NA	NA	NA	NA
Hampton	354	248	373	646	228	190	158	115	89
Harrisonburg	77	91	111	79	139	27	25	21	63
Hopewell	26	17	125	11	11	11	2	5	25
Lexington	NA	NA	NA	4	NA	NA	NA	NA	NA
Lynchburg	30	49	143	33	97	48	80	39	366
Manassas	33	100	NA	432	44	NA	40	4	80
Manassas Park	0	0	1	0	17	8	14	NA	NA
Martinsville	6	18	NA	5	9	7	1	2	28
Newport News	505	310	679	636	901	474	308	92	224

TABLE 5. (continued)
Third-Quarter Residential Building Permits, 1980–88

	1988	1987	1986	1985	1984	1983	1982	1981	1980
CITIES (continued)									
Norfolk	147	518	433	699	390	428	273	114	125
Norton	NA	8	NA	5	8	7	9	10	16
Petersburg	9	128	55	6	57	5	62	110	46
Poquoson	14	12	18	161	26	40	21	23	24
Portsmouth	112	279	93	108	125	97	76	128	102
Radford	15	29	22	24	6	12	13	17	3
Richmond	104	67	67	54	146	204	74	145	248
Roanoke	30	49	286	90	44	13	11	21	142
Salem	34	18	36	30	37	70	3	16	17
South Boston	4	4	2	50	NA	NA	NA	NA	NA
Staunton	NA	NA	NA	26	27	12	8	2	10
Suffolk	122	127	114	67	82	75	119	13	30
Virginia Beach	1,120	862	466	1,792	1,976	2,322	1,238	931	1,137
Waynesboro	NA	NA	NA	6	12	90	11	5	9
Williamsburg	8	18	6	4	9	15	42	1	15
Winchester	130	62	80	86	29	45	10	3	31
PLANNING DISTRICTS									
LENOWISCO	69	46	268	324	354	278	211	365	399
Cumberl. Plateau	64	66	316	361	442	455	496	560	559
Mount Rogers	125	155	557	581	504	399	361	417	557
New River Valley	197	271	266	298	190	133	291	378	340
Fifth	295	353	614	507	302	309	121	157	336
Central Shenandoah	330	434	615	619	523	470	403	311	459
Lord Fairfax	605	670	523	655	396	319	202	270	310
Northern Virginia	5,535	6,885	5,190	5,535	3,881	5,085	2,051	2,191	3,509
Rappahannock-Rapidan	426	201	197	426	176	377	143	164	237
Thomas Jefferson	354	378	506	441	401	506	290	313	538
Central Virginia	444	532	405	445	450	427	409	391	880
West Piedmont	346	428	663	495	791	798	572	492	577
Southside	197	110	131	342	221	234	237	216	189
Piedmont	78	16	34	225	63	83	49	104	62
Richmond Regional	2,914	2,211	2,045	2,660	1,754	1,736	1,097	1,093	2,100
RADCO	1,115	957	828	658	434	291	441	253	424
Northern Neck	NA	177	143	131	58	130	102	77	112
Middle Peninsula	231	150	388	272	417	402	208	168	223
Crater	234	325	373	181	215	134	193	220	232
Southeastern Virginia	2,150	2,294	2,357	3,457	3,201	3,603	2,020	1,358	1,772
Peninsula	1,403	1,087	1,455	2,115	1,412	1,023	699	369	478
Accomack-Northampton	84	66	97	78	179	110	78	45	78

TABLE 5. (continued)
Third-Quarter Residential Building Permits, 1980–88

	1988	1987	1986	1985	1984	1983	1982	1981	1980
METROPOLITAN STATISTICAL AREAS									
Bristol (Va. portion)	70	94	239	261	346	196	167	181	304
Charlottesville	244	237	269	269	236	369	181	198	435
Danville	79	114	287	225	272	347	271	267	259
Lynchburg	130	170	350	397	314	295	293	296	685
Norfolk	3,462	3,500	4,032	5,784	4,931	4,767	2,711	1,747	2,205
Northern Virginia	5,971	7,209	5,456	5,781	3,945	5,085	2,321	2,254	3,675
Richmond	3,077	2,453	2,344	2,781	1,967	1,869	1,288	1,287	2,295
Roanoke	264	316	570	436	244	273	121	157	330
TOTAL METROPOLITAN	13,297	14,093	13,547	15,934	12,255	13,201	7,353	6,387	10,188
TOTAL NON-METROPOLITAN	3,899	3,719	4,424	4,872	4,109	4,101	3,321	3,525	4,183
TOTAL COUNTIES	13,708	14,097	13,613	14,790	11,098	12,378	7,670	7,718	10,744
TOTAL CITIES	3,488	3,715	4,358	6,016	5,266	4,924	3,004	2,194	3,627
VIRGINIA	17,196	17,812	17,971	20,806	16,364	17,302	10,674	9,912	14,371

NOTE: NA = data not available;

TABLE 6.
Fourth-Quarter Residential Building Permits, 1980–88

	1988	1987	1986	1985	1984	1983	1982	1981	1980
COUNTIES									
Accomack	85	57	119	82	57	50	84	32	54
Albemarle	155	134	134	139	161	372	185	163	152
Alleghany	19	15	23	19	22	34	72	NA	31
Amelia	NA	NA	NA	17	18	10	16	13	12
Amherst	34	20	40	64	72	45	40	41	48
Apomattox	15	33	25	29	31	50	20	23	36
Arlington	950	55	60	323	617	13	63	201	168
Augusta	82	75	165	111	190	113	85	68	102
Bath	5	13	19	7	1	NA	NA	NA	NA
Bedford	189	251	216	NA	NA	121	39	48	74
Bland	NA	NA	16	15	NA	NA	NA	NA	NA
Botetourt	64	NA	40	34	34	25	14	13	29
Brunswick	45	45	NA	33	54	37	25	27	43
Buchanan	8	8	41	49	59	53	48	78	81
Buckingham	51	NA	NA	29	NA	NA	NA	NA	NA
Campbell	47	38	168	150	115	131	100	143	146
Caroline	67	61	62	59	45	50	37	42	94
Carroll	25	18	69	78	79	61	43	58	127
Charles City	8	3	21	2	4	5	38	NA	68
Charlotte	11	11	33	24	35	11	5	1	12
Chesterfield	625	935	876	1,100	831	899	539	333	800
Clarke	20	24	19	16	7	19	4	4	12
Craig	NA	NA	NA	22	NA	NA	NA	NA	NA
Culpeper	178	47	357	13	44	20	17	17	30
Cumberland	NA	NA	NA	NA	NA	2	3	6	7
Dickenson	NA	NA	NA	NA	45	51	34	46	66
Dinwiddie	48	30	60	39	33	35	38	26	48
Essex	26	NA	NA	NA	NA	29	18	11	18
Fairfax	2,275	3,338	2,876	2,573	2,602	3,808	1,916	688	1,849
Fauquier	179	71	367	164	141	104	137	40	66
Floyd	29	39	14	19	9	4	5	6	9
Fluvanna	63	67	NA	33	24	31	15	15	21
Franklin	48	75	122	105	161	138	119	49	53
Frederick	168	154	153	120	130	85	53	44	85
Giles	22	24	22	30	NA	NA	NA	NA	NA
Gloucester	80	135	179	265	211	312	127	67	123
Goochland	47	67	30	47	50	28	29	20	33
Grayson	NA	NA	44	33	42	23	30	43	132
Greene	NA	NA	NA	21	22	25	20	19	34
Greensville	21	20	NA	NA	NA	NA	NA	19	24

TABLE 6. (continued)
Fourth-Quarter Residential Building Permits, 1980–88

	1988	1987	1986	1985	1984	1983	1982	1981	1980
COUNTIES (continued)									
Halifax	86	NA	8	71	75	94	50	115	102
Hanover	275	235	332	293	169	138	109	35	83
Henrico	520	654	982	1,225	1,327	1,100	259	135	989
Henry	64	30	209	137	189	117	93	101	121
Highland	NA	NA	NA	NA	NA	10	15	4	8
Isle of Wight	110	NA	135	NA	NA	92	63	125	14
James City	190	162	361	173	152	203	151	113	94
King and Queen	NA	NA	NA	NA	NA	18	10	22	17
King George	62	100	55	82	77	34	66	27	26
King William	34	27	36	22	28	38	15	9	17
Lancaster	NA	38	48	32	38	94	36	17	46
Lee	8	16	48	42	69	155	49	NA	124
Loudoun	619	204	295	660	322	239	206	35	121
Louisa	81	111	98	85	16	40	44	38	53
Lunenburg	NA	NA	NA	25	NA	NA	98	NA	96
Madison	NA	16	16	19	NA	9	12	10	13
Mathews	24	NA	NA	NA	23	24	11	23	31
Mecklenburg	23	21	111	63	69	80	66	100	59
Middlesex	32	NA	NA	NA	NA	44	42	27	25
Montgomery	135	142	295	67	66	258	148	76	263
Nelson	37	25	36	36	37	69	37	30	38
New Kent	30	31	44	39	30	23	18	13	18
Northampton	NA	NA	NA	NA	11	16	14	12	14
Northumberland	NA	45	92	34	NA	31	21	23	37
Nottoway	NA	NA	NA	26	NA	NA	NA	NA	NA
Orange	NA	58	NA	69	63	47	34	30	39
Page	NA	57	52	33	25	89	20	22	38
Patrick	50	52	NA	NA	57	38	30	44	42
Pittsylvania	62	77	205	183	200	229	145	126	173
Powhatan	42	27	40	31	27	21	20	15	18
Prince Edward	NA	NA	NA	16	NA	58	21	37	29
Prince George	37	47	61	46	49	52	26	23	84
Prince William	933	698	790	588	1,056	441	498	188	414
Pulaski	20	24	60	158	52	57	47	47	151
Rappahannock	NA	13	NA	8	NA	33	19	2	17
Richmond	NA	25	NA	3	NA	19	9	9	19
Roanoke	87	93	131	158	220	192	46	68	154
Rockbridge	NA	NA	123	41	69	30	27	9	13
Rockingham	71	78	205	90	83	80	90	113	139
Russell	11	18	92	70	79	47	69	28	94

TABLE 6. (continued)
Fourth-Quarter Residential Building Permits, 1980–88

	1988	1987	1986	1985	1984	1983	1982	1981	1980
COUNTIES (continued)									
Scott	40	33	50	52	52	52	50	40	111
Shenandoah	141	121	132	73	48	152	48	228	84
Smyth	11	15	55	46	48	48	40	46	62
Southampton	47	NA	37	29	29	17	28	21	25
Spotsylvania	410	457	342	304	195	138	106	79	71
Stafford	1,012	300	263	212	91	NA	195	62	115
Surry	17	19	27	22	NA	NA	NA	NA	NA
Sussex	24	15	9	17	NA	NA	NA	NA	NA
Tazewell	27	29	64	103	96	110	89	105	139
Warren	NA	78	55	34	40	130	19	25	42
Washington	29	41	180	103	99	86	74	136	111
Westmoreland	NA	42	67	64	24	23	103	6	15
Wise	10	23	139	116	94	134	125	233	106
Wythe	NA	NA	69	62	NA	48	39	38	54
York	156	81	460	76	102	57	49	42	99
CITIES									
Alexandria	188	652	104	NA	NA	8	50	24	28
Bedford	10	8	14	NA	NA	7	3	3	7
Bristol	11	14	8	20	20	10	4	2	172
Buena Vista	NA	NA	NA	3	NA	NA	NA	NA	NA
Charlottesville	43	11	8	27	17	48	16	5	15
Chesapeake	577	782	456	459	669	466	269	69	102
Clifton Forge	2	1	1	NA	NA	NA	NA	NA	NA
Colonial Heights	10	14	46	25	18	8	20	8	22
Covington	NA	NA	NA	10	NA	NA	NA	NA	NA
Danville	8	5	7	17	40	19	7	5	80
Emporia	1	2	NA	2	1	NA	1	4	2
Fairfax	36	NA	11	10	8	2	6	1	1
Falls Church	16	1	6	NA	NA	1	1	1	21
Franklin	5	NA	NA	12	5	4	1	78	2
Fredericksburg	4	11	2	2	21	15	1	5	3
Galax	NA	NA	25	10	NA	NA	NA	NA	NA
Hampton	531	154	275	527	338	287	92	26	121
Harrisonburg	254	100	97	59	42	63	12	30	71
Hopewell	16	10	94	16	23	8	10	1	8
Lexington	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lynchburg	52	35	44	39	44	163	25	18	49
Manassas	524	58	1,129	89	NA	NA	85	61	94
Manassas Park	NA	NA	NA	28	13	NA	10	NA	9
Martinsville	11	11	NA	5	13	6	2	62	8
Newport News	324	314	483	806	1,242	471	241	133	128

TABLE 6. (continued)
Fourth-Quarter Residential Building Permits, 1980–88

	1988	1987	1986	1985	1984	1983	1982	1981	1980
CITIES (continued)									
Norfolk	517	420	365	399	401	212	217	82	202
Norton	NA	8	NA	15	50	2	12	11	6
Petersburg	6	6	15	16	14	9	4	2	23
Poquoson	9	9	18	88	25	51	17	12	33
Portsmouth	30	93	147	116	105	100	45	41	30
Radford	33	36	38	9	136	4	4	20	4
Richmond	82	60	275	96	328	28	104	136	242
Roanoke	88	150	30	20	11	31	11	3	308
Salem	15	23	34	15	23	26	28	3	34
South Boston	4	3	NA	3	NA	NA	NA	NA	NA
Staunton	NA	NA	NA	7	NA	1	4	1	3
Suffolk	170	157	149	93	443	188	112	27	226
Virginia Beach	943	1,042	1,260	2,885	1,530	1,984	1,785	696	713
Waynesboro	NA	NA	NA	12	8	16	10	37	10
Williamsburg	12	11	22	5	24	23	28	2	1
Winchester	31	36	24	32	15	9	10	2	11
PLANNING DISTRICTS									
LENOWISCO	58	80	237	225	265	343	236	284	347
Cumberland Plateau	46	55	197	222	279	261	240	257	380
Mount Rogers	76	88	466	367	288	276	230	323	658
New River Valley	239	265	429	283	263	323	204	149	427
Fifth	275	282	259	278	310	308	171	87	556
Central Shenandoah	412	266	609	330	393	313	243	262	346
Lord Fairfax	360	470	435	308	265	484	154	325	272
Northern Virginia	5,541	5,006	5,271	4,271	4,618	4,512	2,835	1,199	2,705
Rappahannock-Rapidan	357	205	740	273	248	213	219	99	165
Thomas Jefferson	379	348	276	341	277	585	317	270	313
Central Virginia	347	385	507	282	262	517	227	276	360
West Piedmont	243	250	543	447	660	547	396	387	477
Southside	158	69	119	170	198	211	141	242	204
Piedmont	62	11	33	137	53	81	143	57	156
Richmond Regional	1,629	2,012	2,600	2,833	2,766	2,242	1,116	687	2,251
RADCO	1,555	929	724	659	429	237	405	215	309
Northern Neck	NA	150	207	133	62	167	169	55	117
Middle Peninsula	196	162	215	287	262	465	223	159	231
Crater	180	163	312	183	138	112	99	83	211
Southeastern Virginia	2,399	2,494	2,549	3,993	3,182	3,063	2,520	1,139	1,314
Peninsula	1,222	731	1,619	1,675	1,883	1,092	578	328	476
Accomack-Northampton	85	57	119	82	68	66	98	44	68

TABLE 6. (continued)
Fourth-Quarter Residential Building Permits, 1980–88

	1988	1987	1986	1985	1984	1983	1982	1981	1980
METROPOLITAN STATISTICAL AREAS									
Bristol (Va. portion)	80	88	238	175	171	148	128	178	394
Charlottesville	261	212	142	220	224	476	236	202	222
Danville	70	82	212	200	240	248	152	131	253
Lynchburg	133	93	252	253	231	339	165	202	243
Norfolk	3,539	3,360	4,175	5,892	5,242	4,354	3,133	1,310	1,872
Northern Virginia	6,553	5,306	5,534	4,483	4,709	4,512	3,030	1,261	2,820
Richmond	1,746	2,119	2,876	2,975	2,903	2,354	1,214	747	2,436
Roanoke	254	266	235	227	288	274	99	87	525
TOTAL METROPOLITAN	12,636	11,526	13,664	14,425	14,008	12,705	8,157	4,118	8,765
TOTAL NON-METROPOLITAN	3,183	2,952	4,802	3,354	3,161	3,713	2,807	2,809	3,578
TOTAL COUNTIES	11,256	10,241	13,279	11,802	11,542	12,148	7,717	5,316	9,554
TOTAL CITIES	4,563	4,237	5,187	5,977	5,627	4,270	3,247	1,611	2,789
VIRGINIA	15,819	14,478	18,466	17,779	17,169	16,418	10,964	6,927	12,343

NOTE: NA = data not available.

TABLE 7.
Annual Change in Third-Quarter Residential Building Permits, 1980–88

	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
COUNTIES								
Accomack	27.3 %	–32.0 %	24.4 %	32.2 %	–31.4 %	48.3 %	65.7 %	–41.7 %
Albemarle	–5.2	–39.7	44.4	17.1	–38.2	125.7	–1.8	–46.9
Alleghany	–17.6	–20.9	10.3	–32.8	61.1	NA	NA	NA
Amelia	NA	NA	NA	121.1	–42.4	175.0	–14.3	–6.7
Amherst	53.3	–60.5	–12.6	45.0	–11.8	28.3	–24.3	–20.5
Apomattox	23.1	4.0	4.2	2.1	88.0	–61.5	85.7	–12.5
Arlington	231.5	–69.1	45.2	630.3	–94.1	380.3	225.0	–68.1
Augusta	–0.8	–35.9	36.4	–6.2	13.4	24.6	14.0	–24.8
Bath	NA	NA	–18.8	NA	NA	NA	NA	NA
Bedford	–16.8	NA	NA	NA	–10.1	115.2	–8.0	–65.0
Bland	NA	NA	–56.3	NA	NA	NA	NA	NA
Botetourt	59.2	NA	NA	–4.9	13.9	50.0	–27.3	–45.9
Brunswick	5.4	NA	NA	23.3	–30.2	0.0	–6.5	–4.2
Buchanan	85.7	–91.5	–2.4	–8.7	29.6	–33.6	–18.3	21.3
Buckingham	NA	NA	NA	NA	NA	NA	NA	NA
Campbell	–40.7	–30.5	–52.7	76.4	–12.3	11.9	–14.4	–19.0
Caroline	1.5	91.2	–27.7	–20.3	18.0	16.3	–27.1	–6.3
Carroll	28.1	–70.1	5.9	2.0	25.3	–15.1	–4.1	24.4
Charles City	–6.3	–23.8	10.5	NA	NA	NA	NA	NA
Charlotte	–18.8	–52.9	–10.5	–13.6	300.0	22.2	–43.8	166.7
Chesterfield	–11.6	15.8	–39.9	62.2	3.1	59.5	19.3	–62.2
Clarke	6.5	40.9	0.0	69.2	30.0	25.0	–27.3	83.3
Craig	NA	NA	NA	NA	NA	NA	NA	NA
Culpeper	16.1	229.4	–55.3	5.6	–57.1	394.1	–45.2	–16.2
Cumberland	NA	NA	NA	NA	NA	20.0	–16.7	–53.8
Dickenson	NA	NA	NA	NA	–43.5	41.5	–21.7	–12.6
Dinwiddie	93.9	–35.3	–1.9	0.0	15.6	4.7	4.9	13.9
Essex	NA	NA	NA	NA	NA	21.4	27.3	–45.0
Fairfax	–25.0	48.3	–18.6	11.4	–12.2	203.0	–27.7	–32.3
Fauquier	NA	NA	–38.5	173.2	–50.5	237.9	–24.7	–36.9
Floyd	25.0	90.5	–53.3	275.0	–55.6	145.5	–42.1	0.0
Fluvanna	8.2	NA	NA	46.2	–38.1	110.0	11.1	–51.4
Franklin	22.4	–24.2	–23.1	–24.3	15.4	109.2	113.7	–35.4
Frederick	11.1	18.5	–49.2	134.8	48.4	28.4	23.3	–45.5
Giles	0.0	–12.5	33.3	NA	NA	NA	NA	NA
Gloucester	–0.8	–66.3	36.8	–27.5	33.8	148.6	2.9	–27.3
Goochland	24.4	–43.0	49.1	43.2	–15.9	–10.2	69.0	16.0
Grayson	NA	NA	12.7	10.5	9.6	8.3	–12.7	–1.8
Greene	NA	NA	NA	–8.6	0.0	2.9	–15.0	–11.1
Greensville	16.0	NA	NA	NA	NA	NA	NA	–37.1

TABLE 7. (continued)
Annual Change in Third-Quarter Residential Building Permits, 1980–88

	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
COUNTIES (continued)								
Halifax	NA %	NA %	–88.9 %	69.8 %	–4.5 %	33.7 %	–13.5 %	88.2 %
Hanover	19.4	–35.5	16.1	152.0	7.9	47.9	42.4	–68.1
Henrico	107.1	36.1	–29.0	38.9	14.7	38.3	–17.3	–7.1
Henry	–51.9	–52.5	237.9	–63.5	22.3	3.5	26.5	–22.1
Highland	NA	NA	NA	NA	–7.1	–12.5	100.0	–33.3
Isle of Wight	NA	NA	NA	NA	NA	–14.0	NA	NA
James City	1.2	44.5	17.0	8.4	–23.8	113.6	57.1	7.7
King and Queen	NA	NA	NA	NA	NA	26.9	136.4	–45.0
King George	165.1	–33.0	67.9	24.4	28.6	0.0	25.0	–31.7
King William	–25.8	–11.4	150.0	–36.4	29.4	30.8	85.7	–66.7
Lancaster	NA	50.0	–28.9	73.1	–56.7	100.0	25.0	–27.3
Lee	4.5	–75.0	14.3	–32.5	165.1	–62.3	–13.0	–14.9
Loudoun	–1.1	12.7	46.8	43.5	–7.7	80.9	115.0	2.0
Louisa	–30.3	–36.6	100.0	–12.2	71.9	9.6	–34.2	36.2
Lunenburg	NA	NA	NA	NA	NA	NA	NA	NA
Madison	NA	76.5	–5.6	NA	NA	11.8	41.7	–36.8
Mathews	NA	NA	NA	NA	44.4	42.1	11.8	240.0
Mecklenburg	–25.0	–70.6	45.3	–11.8	6.3	–27.9	50.0	–17.8
Middlesex	NA	NA	NA	NA	NA	44.8	61.1	28.6
Montgomery	–54.1	57.0	–25.0	49.4	196.4	–85.6	–28.4	30.3
Nelson	6.3	–50.8	–24.4	28.4	–16.3	40.4	58.3	–20.0
New Kent	3.3	15.1	51.4	–5.4	5.7	29.6	92.9	–54.8
Northampton	NA	NA	NA	NA	400.0	20.0	100.0	–44.4
Northumberland	NA	31.0	–17.6	NA	NA	–16.2	19.4	–38.0
Nottoway	NA	NA	NA	NA	NA	NA	NA	NA
Orange	NA	NA	NA	111.6	–38.6	89.2	2.8	–32.1
Page	NA	–17.6	51.1	9.8	28.1	–5.9	–22.7	–6.4
Patrick	–8.1	NA	NA	NA	–2.9	41.7	–18.6	–10.6
Pittsylvania	–35.5	–66.1	40.5	–22.0	–21.1	20.1	41.2	–22.7
Powhatan	–30.9	70.2	42.5	48.1	–27.0	131.3	–5.9	–41.4
Prince Edward	NA	NA	NA	NA	NA	43.5	–66.2	142.9
Prince George	7.1	–23.6	22.2	–21.1	–12.3	54.8	61.5	–66.2
Prince William	–26.2	28.0	40.0	134.8	–40.0	61.5	10.5	–26.4
Pulaski	42.9	–76.7	20.0	–15.7	34.8	–9.6	2.8	–35.5
Rappahannock	NA	NA	NA	NA	NA	–42.9	75.0	33.3
Richmond	NA	8.0	525.0	NA	NA	–50.0	0.0	16.7
Roanoke	–39.0	–19.4	–10.5	127.0	–20.8	85.5	–4.6	–20.9
Rockbridge	NA	NA	–50.8	15.7	–13.6	55.3	216.7	–60.0
Rockingham	–43.1	–17.6	8.5	96.7	–4.8	–34.0	17.2	–19.3
Russell	–40.0	–81.5	–3.6	6.7	–9.5	–21.6	11.3	–11.9

TABLE 7. (continued)
Annual Change in Third-Quarter Residential Building Permits, 1980–88

	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
COUNTIES (continued)								
Scott	114.3 %	–89.7 %	–29.9 %	12.8 %	22.9 %	25.0 %	–42.3 %	14.1 %
Shenandoah	–14.0	31.2	–2.7	60.0	–20.5	39.7	–51.2	98.5
Smyth	–19.4	–57.1	–20.8	20.5	60.0	17.0	–31.9	–33.0
Southampton	NA	NA	36.4	–8.3	16.1	29.2	–71.1	167.7
Spotsylvania	–19.0	13.2	44.5	21.5	21.2	120.7	10.8	–46.1
Stafford	34.6	21.8	8.1	284.4	NA	NA	328.6	–62.0
Surry	–41.4	–38.3	80.8	NA	NA	NA	NA	NA
Sussex	–44.4	0.0	–12.9	NA	NA	NA	NA	NA
Tazewell	0.0	–69.0	–23.6	–14.5	9.7	0.0	–17.4	3.9
Warren	–45.3	135.5	28.8	–42.2	108.2	276.9	–43.5	–54.9
Washington	–45.0	–44.8	–3.3	20.0	20.2	–1.9	68.3	–68.5
Westmoreland	NA	6.8	41.9	–3.1	0.0	52.4	162.5	–52.9
Wise	244.4	–92.0	–22.8	–0.7	–7.6	393.8	–74.8	–11.8
Wythe	NA	NA	2.3	NA	NA	40.3	–44.6	10.9
York	11.1	12.5	–67.9	587.0	0.0	15.0	–11.8	11.5
CITIES								
Alexandria	7.1	–3.4	–23.7	NA	NA	–79.3	11.0	–71.5
Bedford	–83.3	140.0	NA	NA	NA	60.0	–50.0	–16.7
Bristol	57.1	–73.1	85.7	–89.6	513.6	340.0	–76.2	10.5
Buena Vista	NA	NA	NA	NA	NA	NA	NA	NA
Charlottesville	100.0	–25.0	–42.9	–8.7	–50.0	155.6	–37.9	–79.9
Chesapeake	–13.4	–54.6	50.1	26.3	6.1	179.4	126.1	–53.7
Clifton Forge	0.0	NA	NA	NA	NA	NA	NA	NA
Colonial Heights	–13.6	69.2	85.7	–80.6	414.3	–83.3	250.0	9.1
Covington	0.0	100.0	–90.0	NA	NA	NA	NA	NA
Danville	–9.5	61.5	–56.7	36.4	–26.7	328.6	–91.3	370.6
Emporia	400.0	NA	NA	50.0	100.0	–50.0	–50.0	100.0
Fairfax	NA	386.7	–11.8	13.3	275.0	**	**	–75.0
Falls Church	0.0	0.0	0.0	**	–50.0	100.0	**	**
Franklin	NA	NA	NA	550.0	–90.0	300.0	400.0	–80.0
Fredericksburg	212.5	700.0	–80.0	–50.0	566.7	200.0	–95.0	NA
Galax	NA	NA	16.7	NA	NA	NA	NA	NA
Hampton	42.7	–33.5	–42.3	183.3	20.0	20.3	37.4	29.2
Harrisonburg	–15.4	–18.0	40.5	–43.2	414.8	8.0	19.0	–66.7
Hopewell	52.9	–86.4	1,036.4	0.0	0.0	450.0	–60.0	–80.0
Lexington	NA	NA	NA	NA	NA	NA	NA	NA
Lynchburg	–38.8	–65.7	333.3	–66.0	102.1	–40.0	105.1	–89.3
Manassas	–67.0	NA	NA	881.8	NA	NA	900.0	–95.0
Manassas Park	0.0	**	**	**	112.5	–42.9	NA	NA
Martinsville	–66.7	NA	NA	–44.4	28.6	600.0	–50.0	–92.9
Newport News	62.9	–54.3	6.8	–29.4	90.1	53.9	234.8	–58.9

TABLE 7. (continued)
Annual Change in Third-Quarter Residential Building Permits, 1980–88

	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
CITIES (continued)								
Norfolk	–71.6 %	19.6 %	–38.1 %	79.2 %	–8.9 %	56.8 %	139.5 %	–8.8 %
Norton	NA	NA	NA	–37.5	14.3	–22.2	–10.0	–37.5
Petersburg	–93.0	132.7	816.7	–89.5	1,040.0	–91.9	–43.6	139.1
Poquoson	16.7	–33.3	–88.8	519.2	–35.0	90.5	–8.7	–4.2
Portsmouth	–59.9	200.0	–13.9	–13.6	28.9	27.6	–40.6	25.5
Radford	–48.3	31.8	–8.3	300.0	–50.0	–7.7	–23.5	466.7
Richmond	55.2	0.0	24.1	–63.0	–28.4	175.7	–49.0	–41.5
Roanoke	–38.8	–82.9	217.8	104.5	238.5	18.2	–47.6	–85.2
Salem	88.9	–50.0	20.0	–18.9	–47.1	2,233.3	–81.3	–5.9
South Boston	0.0	100.0	–96.0	NA	NA	NA	NA	NA
Staunton	NA	NA	NA	–3.7	125.0	50.0	300.0	–80.0
Suffolk	–3.9	11.4	70.1	–18.3	9.3	–37.0	815.4	–56.7
Virginia Beach	29.9	85.0	–74.0	–9.3	–14.9	87.6	33.0	–18.1
Waynesboro	NA	NA	NA	–50.0	–86.7	718.2	120.0	–44.4
Williamsburg	–55.6	200.0	50.0	–55.6	–40.0	–64.3	4,100.0	–93.3
Winchester	109.7	–22.5	–7.0	196.6	–35.6	350.0	233.3	–90.3
PLANNING DISTRICTS								
LENOWISCO	50.0	–82.8	–17.3	–8.5	27.3	31.8	–42.2	–8.5
Cumberland Plateau	–3.0	–79.1	–12.5	–18.3	–2.9	–8.3	–11.4	0.2
Mount Rogers	–19.4	–72.2	–4.1	15.3	26.3	10.5	–13.4	–25.1
New River Valley	–27.3	1.9	–10.7	56.8	42.9	–54.3	–23.0	11.2
Fifth	–16.4	–42.5	21.1	67.9	–2.3	155.4	–22.9	–53.3
Central Shenandoah	–24.0	–29.4	–0.6	18.4	11.3	16.6	29.6	–32.2
Lord Fairfax	–9.7	28.1	–20.2	65.4	24.1	57.9	–25.2	–12.9
Northern Virginia	–19.6	32.7	–6.2	42.6	–23.7	147.9	–6.4	–37.6
Rappahannock–Rapidan	111.9	2.0	–53.8	142.0	–53.3	163.6	–12.8	–30.8
Thomas Jefferson	–6.3	–25.3	14.7	10.0	–20.8	74.5	–7.3	–41.8
Central Virginia	–16.5	31.4	–9.0	–1.1	5.4	4.4	4.6	–55.6
West Piedmont	–19.2	–35.4	33.9	–37.4	–0.9	39.5	16.3	–14.7
Southside	79.1	–16.0	–61.7	54.8	–5.6	–1.3	9.7	14.3
Piedmont	387.5	–52.9	–84.9	257.1	–24.1	69.4	–52.9	67.7
Richmond Regional	31.8	8.1	–23.1	51.7	1.0	58.2	0.4	–48.0
RADCO	16.5	15.6	25.8	51.6	49.1	–34.0	74.3	–40.3
Northern Neck	NA	23.8	9.2	125.9	–55.4	27.5	32.5	–31.3
Middle Peninsula	54.0	–61.3	42.6	–34.8	3.7	93.3	23.8	–24.7
Crater	–28.0	–12.9	106.1	–15.8	60.4	–30.6	–12.3	–5.2
Southeastern Virginia	–6.3	–2.7	–31.8	8.0	–11.2	78.4	48.7	–23.4
Peninsula	29.1	–25.3	–31.2	49.8	38.0	46.4	89.4	–22.8
Accomack–Northampton	27.3	–32.0	24.4	–56.4	62.7	41.0	73.3	–42.3

TABLE 7. (continued)
Annual Change in Third-Quarter Residential Building Permits, 1980–88

	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
METROPOLITAN STATISTICAL AREAS								
Bristol (Va. portion)	–25.5 %	–60.7 %	–8.4 %	–24.6 %	76.5 %	17.4 %	–7.7 %	–40.5 %
Charlottesville	3.0	–11.9	0.0	14.0	–36.0	103.9	–8.6	–54.5
Danville	–30.7	–60.3	27.6	–17.3	–21.6	28.0	1.5	3.1
Lynchburg	–23.5	–51.4	–11.8	26.4	6.4	0.7	–1.0	–56.8
Norfolk	–1.1	–13.2	–30.3	17.3	3.4	75.8	55.2	–20.8
Northern Virginia	–17.2	32.1	–5.6	46.5	–22.4	119.1	3.0	–38.7
Richmond	25.4	4.7	–15.7	41.4	5.2	45.1	0.1	–43.9
Roanoke	–16.5	–44.6	30.7	78.7	–10.6	125.6	–22.9	–52.4
TOTAL METROPOLITAN	–5.6	4.0	–15.0	30.0	–7.2	79.5	15.1	–37.3
TOTAL NON-METROPOLITAN	4.8	–15.9	–9.2	18.6	0.2	23.5	–5.8	–15.7
TOTAL COUNTIES	–2.8	3.6	–8.0	33.3	–10.3	61.4	–0.6	–28.2
TOTAL CITIES	–6.1	–14.8	–27.6	14.2	6.9	63.9	36.9	–39.5
VIRGINIA	–3.5	–0.9	–13.6	27.1	–5.4	62.1	7.7	–31.0

NOTE: NA = data not available; ** = value not defined because of zero divisor.

TABLE 8.
Annual Change in Fourth-Quarter Residential Building Permits, 1980–88

	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
COUNTIES								
Accomack	49.1 %	–52.1 %	45.1 %	43.9 %	14.0 %	–40.5 %	162.5 %	–40.7 %
Albemarle	15.7	0.0	–3.6	–13.7	–56.7	101.1	13.5	7.2
Alleghany	26.7	–34.8	21.1	–13.6	–35.3	–52.8	NA	NA
Amelia	NA	NA	NA	–5.6	80.0	–37.5	23.1	8.3
Amherst	70.0	–50.0	–37.5	–11.1	60.0	12.5	–2.4	–14.6
Apomattox	–54.5	32.0	–13.8	–6.5	–38.0	150.0	–13.0	–36.1
Arlington	1,627.3	–8.3	–81.4	–47.6	4,646.2	–79.4	–68.7	19.6
Augusta	9.3	–54.5	48.6	–41.6	68.1	32.9	25.0	–33.3
Bath	–61.5	–31.6	171.4	600.0	NA	NA	NA	NA
Bedford	–24.7	16.2	NA	NA	NA	210.3	–18.8	–35.1
Bland	NA	NA	6.7	NA	NA	NA	NA	NA
Botetourt	NA	NA	17.6	0.0	36.0	78.6	7.7	–55.2
Brunswick	0.0	NA	NA	–38.9	45.9	48.0	–7.4	–37.2
Buchanan	0.0	–80.5	–16.3	–16.9	11.3	10.4	–38.5	–3.7
Buckingham	NA	NA	NA	NA	NA	NA	NA	NA
Campbell	23.7	–77.4	12.0	30.4	–12.2	31.0	–30.1	–2.1
Caroline	9.8	–1.6	5.1	31.1	–10.0	35.1	–11.9	–55.3
Carroll	38.9	–73.9	–11.5	–1.3	29.5	41.9	–25.9	–54.3
Charles City	166.7	–85.7	950.0	–50.0	–20.0	–86.8	NA	NA
Charlotte	0.0	–66.7	37.5	–31.4	218.2	120.0	400.0	–91.7
Chesterfield	–33.2	6.7	–20.4	32.4	–7.6	66.8	61.9	–58.4
Clarke	–16.7	26.3	18.8	128.6	–63.2	375.0	0.0	–66.7
Craig	NA	NA	NA	NA	NA	NA	NA	NA
Culpeper	278.7	–86.8	2,646.2	–70.5	120.0	17.6	0.0	–43.3
Cumberland	NA	NA	NA	NA	NA	–33.3	–50.0	–14.3
Dickenson	NA	NA	NA	NA	–11.8	50.0	–26.1	–30.3
Dinwiddie	60.0	–50.0	53.8	18.2	–5.7	–7.9	46.2	–45.8
Essex	NA	NA	NA	NA	NA	61.1	63.6	–38.9
Fairfax	–31.8	16.1	11.8	–1.1	–31.7	98.7	178.5	–62.8
Fauquier	152.1	–80.7	123.8	16.3	35.6	–24.1	242.5	–39.4
Floyd	–25.6	178.6	–26.3	111.1	125.0	–20.0	–16.7	–33.3
Fluvanna	–6.0	NA	NA	37.5	–22.6	106.7	0.0	–28.6
Franklin	–36.0	–38.5	16.2	–34.8	16.7	16.0	142.9	–7.5
Frederick	9.1	0.7	27.5	–7.7	52.9	60.4	20.5	–48.2
Giles	–8.3	9.1	–26.7	NA	NA	NA	NA	NA
Gloucester	–40.7	–24.6	–32.5	25.6	–32.4	145.7	89.6	–45.5
Goochland	–29.9	123.3	–36.2	–6.0	78.6	–3.4	45.0	–39.4
Grayson	NA	NA	33.3	–21.4	82.6	–23.3	–30.2	–67.4
Greene	NA	NA	NA	–4.5	–12.0	25.0	5.3	–44.1
Greensville	5.0	NA	NA	NA	NA	NA	NA	–20.8

TABLE 8. (continued)
Annual Change in Fourth-Quarter Residential Building Permits, 1980–88

	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
COUNTIES (continued)								
Halifax	NA %	NA %	–88.7 %	–5.3 %	–20.2 %	88.0 %	–56.5 %	12.7 %
Hanover	17.0	–29.2	13.3	73.4	22.5	26.6	211.4	–57.8
Henrico	–20.5	–33.4	–19.8	–7.7	20.6	324.7	91.9	–86.3
Henry	113.3	–85.6	52.6	–27.5	61.5	25.8	–7.9	–16.5
Highland	NA	NA	NA	NA	NA	–33.3	275.0	–50.0
Isle of Wight	NA	NA	NA	NA	NA	46.0	–49.6	792.9
James City	17.3	–55.1	108.7	13.8	–25.1	34.4	33.6	20.2
King and Queen	NA	NA	NA	NA	NA	80.0	–54.5	29.4
King George	–38.0	81.8	–32.9	6.5	126.5	–48.5	144.4	3.8
King William	25.9	–25.0	63.6	–21.4	–26.3	153.3	66.7	–47.1
Lancaster	NA	–20.8	50.0	–15.8	–59.6	161.1	111.8	–63.0
Lee	–50.0	–66.7	14.3	–39.1	–55.5	216.3	NA	NA
Loudoun	203.4	–30.8	–55.3	105.0	34.7	16.0	488.6	–71.1
Louisa	–27.0	13.3	15.3	431.3	–60.0	–9.1	15.8	–28.3
Lunenburg	NA	NA	NA	NA	NA	NA	NA	NA
Madison	NA	0.0	–15.8	NA	NA	–25.0	20.0	–23.1
Mathews	NA	NA	NA	NA	–4.2	118.2	–52.2	–25.8
Mecklenburg	9.5	–81.1	76.2	–8.7	–13.8	21.2	–34.0	69.5
Middlesex	NA	NA	NA	NA	NA	4.8	55.6	8.0
Montgomery	–4.9	–51.9	340.3	1.5	–74.4	74.3	94.7	–71.1
Nelson	48.0	–30.6	0.0	–2.7	–46.4	86.5	23.3	–21.1
New Kent	–3.2	–29.5	12.8	30.0	30.4	27.8	38.5	–27.8
Northampton	NA	NA	NA	NA	–31.3	14.3	16.7	–14.3
Northumberland	NA	–51.1	170.6	NA	NA	47.6	–8.7	–37.8
Nottoway	NA	NA	NA	NA	NA	NA	NA	NA
Orange	NA	NA	NA	9.5	34.0	38.2	13.3	–23.1
Page	NA	9.6	57.6	32.0	–71.9	345.0	–9.1	–42.1
Patrick	–3.8	NA	NA	NA	50.0	26.7	–31.8	4.8
Pittsylvania	–19.5	–62.4	12.0	–8.5	–12.7	57.9	15.1	–27.2
Powhatan	55.6	–32.5	29.0	14.8	28.6	5.0	33.3	–16.7
Prince Edward	NA	NA	NA	NA	NA	176.2	–43.2	27.6
Prince George	–21.3	–23.0	32.6	–6.1	–5.8	100.0	13.0	–72.6
Prince William	33.7	–11.6	34.4	–44.3	139.5	–11.4	164.9	–54.6
Pulaski	–16.7	–60.0	–62.0	203.8	–8.8	21.3	0.0	–68.9
Rappahannock	NA	NA	NA	NA	NA	73.7	850.0	–88.2
Richmond	NA	NA	NA	NA	NA	111.1	0.0	–52.6
Roanoke	–6.5	–29.0	–17.1	–28.2	14.6	317.4	–32.4	–55.8
Rockbridge	NA	NA	200.0	–40.6	130.0	11.1	200.0	–30.8
Rockingham	–9.0	–62.0	127.8	8.4	3.8	–11.1	–20.4	–18.7
Russell	–38.9	–80.4	31.4	–11.4	68.1	–31.9	146.4	–70.2

TABLE 8. (continued)
Annual Change in Fourth-Quarter Residential Building Permits, 1980–88

	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
COUNTIES (continued)								
Scott	21.2 %	–34.0 %	–3.8 %	0.0 %	0.0 %	4.0 %	25.0 %	–64.0 %
Shenandoah	16.5	–8.3	80.8	52.1	–68.4	216.7	–78.9	171.4
Smyth	–26.7	–72.7	19.6	–4.2	0.0	20.0	–13.0	–25.8
Southampton	NA	NA	27.6	0.0	70.6	–39.3	33.3	–16.0
Spotsylvania	–10.3	33.6	12.5	55.9	41.3	30.2	34.2	11.3
Stafford	237.3	14.1	24.1	133.0	NA	NA	214.5	–46.1
Surry	–10.5	–29.6	22.7	NA	NA	NA	NA	NA
Sussex	60.0	66.7	–47.1	NA	NA	NA	NA	NA
Tazewell	–6.9	–54.7	–37.9	7.3	–12.7	23.6	–15.2	–24.5
Warren	NA	41.8	61.8	–15.0	–69.2	584.2	–24.0	–40.5
Washington	–29.3	–77.2	74.8	4.0	15.1	16.2	–45.6	22.5
Westmoreland	NA	–37.3	4.7	166.7	4.3	–77.7	1,616.7	–60.0
Wise	–56.5	–83.5	19.8	23.4	–29.9	7.2	–46.4	119.8
Wythe	NA	NA	11.3	NA	NA	23.1	2.6	–29.6
York	92.6	–82.4	505.3	–25.5	78.9	16.3	16.7	–57.6
CITIES								
Alexandria	–71.2	526.9	NA	NA	NA	–84.0	108.3	–14.3
Bedford	25.0	–42.9	NA	NA	NA	133.3	0.0	–57.1
Bristol	–21.4	75.0	–60.0	0.0	100.0	150.0	100.0	–98.8
Buena Vista	NA	NA	NA	NA	NA	NA	NA	NA
Charlottesville	290.9	37.5	–70.4	58.8	–64.6	200.0	220.0	–66.7
Chesapeake	–26.2	71.5	–0.7	–31.4	43.6	73.2	289.9	–32.4
Clifton Forge	100.0	0.0	NA	NA	NA	NA	NA	NA
Colonial Heights	–28.6	–69.6	84.0	38.9	125.0	–60.0	150.0	–63.6
Covington	NA	NA	NA	NA	NA	NA	NA	NA
Danville	60.0	–28.6	–58.8	–57.5	110.5	171.4	40.0	–93.8
Emporia	–50.0	NA	NA	100.0	NA	NA	–75.0	100.0
Fairfax	NA	NA	10.0	25.0	300.0	–66.7	500.0	0.0
Falls Church	1,500.0	–83.3	NA	NA	NA	0.0	0.0	–95.2
Franklin	NA	NA	NA	140.0	25.0	300.0	–98.7	3,800.0
Fredericksburg	–63.6	450.0	0.0	–90.5	40.0	1,400.0	–80.0	66.7
Galax	NA	NA	150.0	NA	NA	NA	NA	NA
Hampton	244.8	–44.0	–47.8	55.9	17.8	212.0	253.8	–78.5
Harrisonburg	154.0	3.1	64.4	40.5	–33.3	425.0	–60.0	–57.7
Hopewell	60.0	–89.4	487.5	–30.4	187.5	–20.0	900.0	–87.5
Lexington	NA	NA	NA	NA	NA	NA	NA	NA
Lynchburg	48.6	–20.5	12.8	–11.4	–73.0	552.0	38.9	–63.3
Manassas	803.4	–94.9	1,168.5	NA	NA	NA	39.3	–35.1
Manassas Park	NA	NA	NA	115.4	NA	NA	NA	NA
Martinsville	0.0	NA	NA	–61.5	116.7	200.0	–96.8	675.0
Newport News	3.2	–35.0	–40.1	–35.1	163.7	95.4	81.2	3.9

TABLE 8. (continued)
Annual Change in Fourth-Quarter Residential Building Permits, 1980–88

	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
CITIES (continued)								
Norfolk	23.1 %	15.1 %	–8.5 %	–0.5 %	89.2 %	–2.3 %	164.6 %	–59.4 %
Norton	NA	NA	NA	–70.0	2,400.0	–83.3	9.1	83.3
Petersburg	0.0	–60.0	–6.3	14.3	55.6	125.0	100.0	–91.3
Poquoson	0.0	–50.0	–79.5	252.0	–51.0	200.0	41.7	–63.6
Portsmouth	–67.7	–36.7	26.7	10.5	5.0	122.2	9.8	36.7
Radford	–8.3	–5.3	322.2	–93.4	3,300.0	0.0	–80.0	400.0
Richmond	36.7	–78.2	186.5	–70.7	1,071.4	–73.1	–23.5	–43.8
Roanoke	–41.3	400.0	50.0	81.8	–64.5	181.8	266.7	–99.0
Salem	–34.8	–32.4	126.7	–34.8	–11.5	–7.1	833.3	–91.2
South Boston	33.3	NA	NA	NA	NA	NA	NA	NA
Staunton	NA	NA	NA	NA	NA	–75.0	300.0	–66.7
Suffolk	8.3	5.4	60.2	–79.0	135.6	67.9	314.8	–88.1
Virginia Beach	–9.5	–17.3	–56.3	88.6	–22.9	11.1	156.5	–2.4
Waynesboro	NA	NA	NA	50.0	–50.0	60.0	–73.0	270.0
Williamsburg	9.1	–50.0	340.0	–79.2	4.3	–17.9	1,300.0	100.0
Winchester	–13.9	50.0	–25.0	113.3	66.7	–10.0	400.0	–81.8
PLANNING DISTRICTS								
LENOWISCO	–27.5	–66.2	5.3	–15.1	–22.7	45.3	–16.9	–18.2
Cumberland Plateau	–16.4	–72.1	–11.3	–20.4	6.9	8.8	–6.6	–32.4
Mount Rogers	–13.6	–81.1	27.0	27.4	4.3	20.0	–28.8	–50.9
New River Valley	–9.8	–38.2	51.6	7.6	–18.6	58.3	36.9	–65.1
Fifth	–2.5	8.9	–6.8	–10.3	0.6	80.1	96.6	–84.4
Central Shenandoah	54.9	–56.3	84.5	–16.0	25.6	28.8	–7.3	–24.3
Lord Fairfax	–23.4	8.0	41.2	16.2	–45.2	214.3	–52.6	19.5
Northern Virginia	10.7	–5.0	23.4	–7.5	2.3	59.2	136.4	–55.7
Rappahannock–Rapidan	74.1	–72.3	171.1	10.1	16.4	–2.7	121.2	–40.0
Thomas Jefferson	8.9	26.1	–19.1	23.1	–52.6	84.5	17.4	–13.7
Central Virginia	–9.9	–24.1	79.8	7.6	–49.3	127.8	–17.8	–23.3
West Piedmont	–2.8	–54.0	21.5	–32.3	20.7	38.1	2.3	–18.9
Southside	129.0	–42.0	–30.0	–14.1	–6.2	49.6	–41.7	18.6
Piedmont	463.6	–66.7	–75.9	158.5	–34.6	–43.4	150.9	–63.5
Richmond Regional	–19.0	–22.6	–8.2	2.4	23.4	100.9	62.4	–69.5
RADCO	67.4	28.3	9.9	53.6	81.0	–41.5	88.4	–30.4
Northern Neck	NA	–27.5	55.6	114.5	–62.9	–1.2	207.3	–53.0
Middle Peninsula	21.0	–24.7	–25.1	9.5	–43.7	108.5	40.3	–31.2
Crater	10.4	–47.8	70.5	32.6	23.2	13.1	19.3	–60.7
Southeastern Virginia	–3.8	–2.2	–36.2	25.5	3.9	21.5	121.2	–13.3
Peninsula	67.2	–54.8	–3.3	–11.0	72.4	88.9	76.2	–31.1
Accomack–Northampton	49.1	–52.1	45.1	20.6	3.0	–32.7	122.7	–35.3

TABLE 8. (continued)
Annual Change in Fourth-Quarter Residential Building Permits, 1980–88

	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
METROPOLITAN STATISTICAL AREAS								
Bristol (Va. portion)	–9.1 %	–63.0 %	36.0 %	2.3 %	15.5 %	15.6 %	–28.1 %	–54.8 %
Charlottesville	23.1	49.3	–35.5	–1.8	–52.9	101.7	16.8	–9.0
Danville	–14.6	–61.3	6.0	–16.7	–3.2	63.2	16.0	–48.2
Lynchburg	43.0	–63.1	–0.4	9.5	–31.9	105.5	–18.3	–16.9
Norfolk	5.3	–19.5	–29.1	12.4	20.4	39.0	139.2	–30.0
Northern Virginia	23.5	–4.1	23.4	–4.8	4.4	48.9	140.3	–55.3
Richmond	–17.6	–26.3	–3.3	2.5	23.3	93.9	62.5	–69.3
Roanoke	–4.5	13.2	3.5	–21.2	5.1	176.8	13.8	–83.4
TOTAL METROPOLITAN	9.6	–15.6	–5.3	3.0	10.3	55.8	98.1	–53.0
TOTAL NON-METROPOLITAN	7.8	–38.5	43.2	6.1	–14.9	32.3	–0.1	–21.5
TOTAL COUNTIES	9.9	–22.9	12.5	2.3	–5.0	57.4	45.2	–44.4
TOTAL CITIES	7.7	–18.3	–13.2	6.2	31.8	31.5	101.6	–42.2
VIRGINIA	9.3	–21.6	3.9	3.6	4.6	49.7	58.3	–43.9

NOTE: NA = data not available; ** = value not defined because of zero divisor.

VIRGINIA PLANNING DISTRICTS

1 LENOWISCO

- Lee County
- Scott County
- Wise County
- Norton City

2 Cumberland Plateau

- Buchanan County
- Dickenson County
- Russell County
- Tazewell County

3 Mount Rogers

- Bland County
- Carroll County
- Grayson County
- Smyth County
- Washington County
- Wythe County
- Bristol City
- Galax City

4 New River Valley

- Floyd County
- Giles County
- Montgomery County
- Pulaski County
- Radford City

5 Fifth

- Alleghany County
- Botetourt County
- Craig County
- Roanoke County
- Clifton Forge City
- Covington City
- Roanoke City
- Salem City

6 Central Shenandoah

- Augusta County
- Bath County
- Highland County
- Rockbridge County
- Rockingham County
- Buena Vista City
- Harrisonburg City
- Lexington City
- Staunton City
- Waynesboro City

7 Lord Fairfax

- Clarke County
- Frederick County
- Page County
- Shenandoah County
- Warren County
- Winchester City

8 Northern Virginia

- Arlington County
- Fairfax County
- Loudoun County
- Prince William County
- Alexandria City
- Fairfax City
- Falls Church City
- Manassas City
- Manassas Park City

9 Rappahannock-Rapidan

- Culpeper County
- Fauquier County
- Madison County
- Orange County
- Rappahannock County

10 Thomas Jefferson

- Albemarle County
- Fluvanna County
- Greene County
- Louisa County
- Nelson County
- Charlottesville City

11 Central Virginia

- Amherst County
- Appomattox County
- Bedford County
- Campbell County
- Bedford City
- Lynchburg City

12 West Piedmont

- Franklin County
- Henry County
- Patrick County
- Pittsylvania County
- Danville City
- Martinsville City

13 Southside

- Brunswick County
- Halifax County
- Mecklenburg County
- South Boston City

14 Piedmont

- Amelia County
- Buckingham County
- Charlotte County
- Cumberland County
- Lunenburg County
- Nottoway County
- Prince Edward County

VIRGINIA PLANNING DISTRICTS (continued)

15 Richmond Regional

- Charles City County
- Chesterfield County
- Goochland County
- Hanover County
- Henrico County
- New Kent County
- Powhatan County
- Richmond City

16 RADCO

- Caroline County
- King George County
- Spotsylvania County
- Stafford County
- Fredericksburg City

17 Northern Neck

- Lancaster County
- Northumberland County
- Richmond County
- Westmoreland County

18 Middle Peninsula

- Essex County
- Gloucester County
- King and Queen County
- King William County
- Mathews County
- Middlesex County

19 Crater

- Dinwiddie County
- Greensville County
- Prince George County
- Surry County
- Sussex County
- Colonial Heights City
- Emporia City
- Hopewell City
- Petersburg City

20 Southeastern Virginia

- Isle of Wight County
- Southampton County
- Chesapeake City
- Franklin City
- Norfolk City
- Portsmouth City
- Suffolk City
- Virginia Beach City

21 Peninsula

- James City County
- York County
- Hampton City
- Newport News City
- Poquoson City
- Williamsburg City

22 Accomack-Northampton

- Accomack County
- Northampton County

METROPOLITAN STATISTICAL AREAS

Charlottesville

- Albemarle County
- Fluvanna County
- Greene County
- Charlottesville City

Danville

- Pittsylvania County
- Danville City

Johnson City-Kingsport-Bristol, Tennessee-Virginia

- Virginia Portion:
  - Scott County
  - Washington County
  - Bristol City
- Tennessee Portion:
  - Carter County
  - Hawkins County
  - Sullivan County
  - Unicoi County
  - Washington County

Lynchburg[a]

- Amherst County
- Campbell County
- Lynchburg City

Norfolk-Virginia Beach-Newport News[b]

- Gloucester County
- James City County
- York County
- Chesapeake City
- Norfolk City
- Portsmouth City
- Suffolk City
- Virginia Beach City
- Hampton City
- Newport News City
- Poquoson City
- Williamsburg City

Richmond-Petersburg[c]

- Charles City County
- Chesterfield County
- Goochland County
- Hanover County
- Henrico County
- New Kent County
- Powhatan County
- Dinwiddie County
- Prince George County
- Colonial Heights City
- Hopewell City
- Petersburg City
- Richmond City

Roanoke[d]

- Botetourt County
- Roanoke County
- Roanoke City
- Salem City

Washington, D.C.-Maryland-Virginia[e]

- Virginia Portion:
  - Arlington County
  - Fairfax County
  - Loudoun County
  - Prince William County
  - Stafford County
  - Alexandria City
  - Fairfax City
  - Falls Church City
  - Manassas City
  - Manassas Park City
- District of Columbia
- Maryland Portion:
  - Calvert County
  - Charles County
  - Frederick County
  - Montgomery County
  - Prince George's County

---

[a] Appomattox County was removed from the Lynchburg MSA on June 30, 1983.

[b] On June 30, 1983 the Norfolk-Virginia Beach-Portsmouth MSA and the Newport News-Hampton MSA were combined to form the Norfolk-Virginia Beach-Newport News MSA.

[c] On June 30, 1983 the Petersburg-Colonial Heights-Hopewell MSA and the Richmond MSA were combined to form the Richmond-Petersburg MSA.

[d] Craig County was removed from the Roanoke MSA on June 30, 1983.

[e] Stafford County, Va., and Calvert and Frederick Counties, Md., were added to the Washington, D.C.-Md.-Va. MSA on June 30, 1983.

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Housing Units Authorized in Virginia's Counties and Cities:

Annual, 1988

Michael A. Spar

Julia H. Martin

Center for Public Service
University of Virginia

September 1989

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FOREWORD

The Center for Public Service is pleased to present the latest report in our series, Housing Units Authorized in Virginia's Counties and Cities.

Produced by the Center's Demographic Section, this series began in 1970 as an annual report. In 1976 the series was made quarterly. Reports in the series now appear three times a year, with two issues covering quarterly activity and an annual summary. In addition to data for counties and independent cities, Housing Units Authorized gives totals for each of the state's twenty-two planning districts and eight metropolitan statistical areas.

The Center wishes to thank the following individuals for their assistance in collecting the permit data presented in this report: Glen Skinner, LENOWISCO Planning District Commission; Sally Morgan, Mount Rogers Planning District Commission; Elaine Echols and Todd Steiss, New River Valley Planning District Commission; Helen Smithers, FIFTH Planning District Commission; William Vaughn, Central Shenandoah Planning District Commission; Gordon Jones and Lisa Phillips, Rappahannock–Rapidan Planning District Commission; James B. Caravati, Thomas Jefferson Planning District Commission; Mathew Montavon, Central Virginia Planning District Commission; Robert Dowd, West Piedmont Planning District Commission; Gail Moody, Southside Planning District Commission; Jack Houghton, Piedmont Planning District Commission; Jeff Huber and V. Reynolds, Northern Neck Planning District Commission; Jeff Burdett, Middle Peninsula Planning District Commission; Joseph J. Vinsh, Jr., Crater Planning District Commission; Claudia B. Gooch and Debra M. Darr, Southeastern Virginia Planning District Commission; C. Earl Hillard, Page County Building Official; Neville H. Derflinger, Jr., Warren County Building Official.

Special thanks go the the authors of this report. They labored diligently and with insight to produce this publication. Also, thanks go to other staff members at the Center for Public Service who assisted the authors in preparing this study. George E. Barnes and Sandra H. Wiley edited the report and Barry A. Jackson designed the layout and prepared the graphics.

We hope readers will find this report to be a useful source of information on building activity in the state, and we will be pleased to answer questions about the data.

A.E. Dick Howard
Director, Center for Public Service
University of Virginia

Charlottesville
September 1989

SUMMARY

Virginia's construction industry performed at above-average rates during 1988, although the number of permits issued failed to match the record set in 1986, the peak of the current housing boom. During 1988 permits for nearly 70,000 units were issued. Of these, 66,512 were for private units (about 6 percent above the five-year average), and 48,153 were for single-family units, about 4 percent above average.

Although the number of permits issued during the year fell short of the 1986 record, the value of all residential unit permits issued did establish a new record. In current dollars aggregate permit value increased from $3.7 billion in 1987 to $4.1 billion in 1988. This is the first time residential construction has exceeded the $4 billion mark. Even after adjusting for inflation the 1988 total of $3.5 billion (in 1982 dollars) establishes a new record.

Residential construction was concentrated in five of the state's twenty-two planning districts and in three of its eight metropolitan statistical areas. Among planning districts Northern Virginia, Richmond Regional, Southeastern Virginia, Peninsula, and RADCO led the state, issuing nearly 50,000 permits, over 70 percent of the state total. Among metropolitan statistical areas, the Virginia portion of Washington, D.C., Norfolk–Virginia Beach–Portsmouth, and Richmond–Petersburg led the state, issuing nearly 48,000 permits.

Eleven localities issued over 1,000 residential building permits during the year, led by Fairfax County with 7,314. Prince William County, Chesterfield County, Virginia Beach City, and Henrico County each issued over 2,000 permits. On the other hand, only four localities issued over 1,000 permits for residential units in multi-unit structures. These were Fairfax County, Henrico County, Arlington County, and Virginia Beach City.

Nonresidential construction set two new records during 1988—one for the number of permits issued, and the other for their value. The total number of nonresidential permits issued during 1988, 11,850, is the highest recorded figure since 1980, when we began tabulating nonresidential construction trends. The aggregate value of these permits, $2.5 billion in current dollars and $2.1 billion in 1982 dollars, marks the first time since 1980 that either figure has exceeded $2 billion.

Five categories of building accounted for the majority of all nonresidential construction. Permits issued for office, bank, and professional buildings had an aggregate value of $1.1 billion; permits for stores and mercantile buildings were worth over $700 million; industrial buildings were worth nearly $200 million; parking garages were worth $150 million; and permits issued for church, hospital, and school buildings were valued at nearly $140 million.

The geographic concentration of nonresidential construction was even more pronounced than for residential construction. Four planning districts, Northern Virginia, Richmond Regional, Southeastern Virginia, and Peninsula, accounted for nearly 80 percent of the total state value of all nonresidential construction.

Fairfax County led the state in three of the five largest categories of nonresidential construction: new office, bank, and professional buildings (permits valued at $600 million); parking garages ($72 million); and church, hospital, and school buildings ($17 million). In the category of new stores and mercantile buildings, Arlington County ranked first with permits valued at $100 million. For the category of new industrial buildings, Loudoun County led the state, issuing permits valued at nearly $30 million.

ANALYSIS

Introduction

Building activity is one of the most frequently used indicators of economic and demographic change. Presently, the number of housing units authorized by local building permits is the best measure of housing starts available for Virginia's counties and independent cities. Most of the information contained in this report is supplied by local building officials to the Construction Division of the U.S. Bureau of the Census. The Bureau, in turn, forwards the data to the Center for Public Service where they are tabulated and compiled. For about forty of the state's smallest localities building permit statistics are collected by the planning district directly from local building officials, and then forwarded to the Center for tabulation.

In this report, Tables 1 and 2 give annual totals for the value of residential and nonresidential construction in the state. The number of residential building permits issued for housing units in Virginia counties, cities, planning districts, and metropolitan statistical areas for 1988 is presented in Table 3. Table 4 presents data on permits issued for nonresidential construction during the year. Tables 5 and 6 provide historical data (1980–88) on the total number of permits issued annually. Tables 7 and 8 show the percentage change from year to year in the total number of permits issued. Table 7 contains data for residential housing units and Table 8 contains data for nonresidential construction. Readers should carefully note that, unlike the data in Tables 3 and 5, permits tabulated in Tables 4 and 6 are for buildings, rather than for units. The building categories used in these tables include the following:

- **Amusement and Recreational buildings**
  include theaters, radio and television studios, auditoriums, arenas, bowling alleys, skating rinks, indoor swimming pools, and gymnasiums.
- **Church, Hospital, and School buildings**
  include churches, synagogues, rectories, Sunday school rooms, monasteries; general, TB, and mental hospitals and sanatoriums, health centers, clinics, rest homes, orphanages, homes for the aged, and nursing homes; penitentiaries, jails, reformatories; schools, colleges, seminaries, libraries, museums, observatories, and dormitories.
- **Industrial buildings**
  include plants producing, processing, and assembling goods and materials, plus affiliated buildings such as warehouses and administration buildings.
- **Parking Garages**
  include garage buildings and open-deck parking structures. This category does not include parking lots or residential garages and carports.
- **Service Stations and Repair Garages**
  include automobile repair shops.
- **Office, Bank, and Professional buildings**
  include buildings designed for doctors' offices and related services, chambers of commerce, public administration buildings such as post offices, city halls, court houses, and Federal offices.
- **Public Work and Utilities buildings**
  include plants providing public services, such as transportation, communication, power, light, heat, water supply, sewage and garbage disposal, and trash incineration.

TABLE 1.
Aggregate Value of Residential Construction, Virginia: 1970–1988

Year	Value of Construction in Current Dollars (in Millions $)	Census Bureau Construction Cost Index	Deflated Value of Construction in Constant 1982 Dollars (in Millions $)
1970	$ 544.7	35.7	$1,525.8
1971	1,023.0	37.7	2,713.5
1972	1,237.2	40.1	3,085.3
1973	1,332.9	43.9	3,036.2
1974	879.7	48.4	1,817.6
1975	838.9	52.8	1,588.8
1976	1,003.8	56.6	1,773.5
1977	1,564.5	63.2	2,475.5
1978	1,703.2	72.3	2,355.7
1979	1,617.3	81.7	1,979.6
1980	1,357.3	90.6	1,498.1
1981	1,134.8	97.7	1,161.5
1982	1,260.3	100.0	1,260.3
1983	2,257.8	102.6	2,200.6
1984	2,601.8	106.4	2,445.3
1985	3,018.9	109.6	2,754.5
1986	3,770.9	111.8	3,372.9
1987	3,660.4	114.3	3,202.4
1988	4,070.9	116.9	3,482.4

SOURCES: Census Bureau Construction Cost Index from *Construction Review*, (January-February 1989), Table E-1A; annual data from previous editions of *Housing Units Authorized*.

NOTE: Deflated value = current value x (100 / index value).

- **Stores and Mercantile buildings**
  include buildings used in buying, selling, distributing, and storing merchandise and materials, or performing consumer services.

- **Other Nonresidential buildings**
  include boathouses, burial crypts, farm buildings such as barns and silos, pumphouses, as well as government owned buildings such as armories, military barracks, police and fire stations, and convention centers.

We are continuing the policy of not publishing data imputed by the Census Bureau. Localities that did not file a complete set of monthly reports are identified by footnotes in Tables 3 and 4.

In January 1987 the Census Bureau stopped collecting information on mobile homes; this is why most localities are listed as having issued no mobile home permits. The Center for Public Service continues to collect mobile home data for some localities, but these data should be interpreted cautiously, since it has come to our attention that many localities do not distinguish between new mobile homes and mobile homes that are relocating within the locality.

The cost figures reported here are estimated construction costs submitted by the builders, and often exclude land acquisition costs or the builder's profit margin. Additionally, the Census Bureau estimates that nationwide underestimation of costs

TABLE 2.
Aggregate Value of Nonresidential Construction, Virginia: 1980–1988

Year	Value of Construction in Current Dollars (in Millions $)	Boeckh Index for Commercial and Factory Buildings	Deflated Value of Construction in Constant 1982 Dollars (in Millions $)
1980	$664.9	84.1	$790.6
1981	781.6	92.2	847.7
1982	790.4	100.0	790.4
1983	1,013.6	105.3	962.6
1984	1,242.8	109.4	1,136.0
1985	1,425.5	111.3	1,280.8
1986	1,855.1	113.2	1,638.8
1987	1,976.6	115.1	1,717.3
1988	2,505.4	118.5	2,114.3

SOURCES: Boeckh Index from U.S. Department of Commerce, *Construction Review*, (January-February 1989), Table E-1; annual data from previous editions of *Housing Units Authorized*.

NOTES: The Boeckh Index is an independent index of construction costs compiled by The American Appraisal Company, Inc. Deflated value = current value x (100 / index value).

on construction itself (i.e., materials and labor) runs from about 17.5 percent for single units, to about 30 percent for structures of two to four units, to more than 50 percent for structures of five or more units. The figures for average cost per unit, therefore, do not represent an estimate of the price of housing to the consumer. Despite these limitations, construction costs constitute a large proportion of the total market cost of housing, and thus the reported figures provide an important means of comparison among localities and for one area over time.

Data on the number of permits issued are considerably more reliable than the data for costs. The Census Bureau considers its estimates of housing authorizations in Virginia to be accurate to within plus or minus 1 percent.

Statewide Residential Trends

During 1988, 69,997 residential building permits were issued in Virginia, about 2 percent more than during 1987, but about 2 percent below the 1983–87 average of 71,558 permits per year. This apparent decline, as measured against the historical average, is in fact completely artificial, because prior to 1987 many more mobile homes were tabulated than has recently been the case (see the Introduction for more about mobile homes). If mobile homes are removed from the historic data the five-year average is only 62,793. In 1988 the comparable number of permits issued, excluding mobile homes, was 66,512, or nearly 6 percent above average (see **Figure 1**).

The aggregate value of all residential permits issued during 1988 was $4.1 billion in current dollars. This is the first year that the value of residential construction has exceeded the $4 billion mark (see **Table 1**). The 1988 total of $4.1 billion converts to about $3.5 billion in constant 1982 dollars, which is also the highest total since 1970, when we began tabulating permit data. On a more negative note, average costs per unit rose sharply during 1988, increasing by 9.4 percent over 1987, from $53,170 to $58,158 (see **Figure 2**).

The number of permits issued for single family units, which make up the majority of all permits, increased 5.5 percent between 1987 and 1988, from 45,651 to 48,153. The number of single family unit permits issued during 1988 was about 4.2 percent above the 1983-1987 average of 46,196 units per year.

FIGURE 1.
Number of Residential Permits Issued, 1970–1988

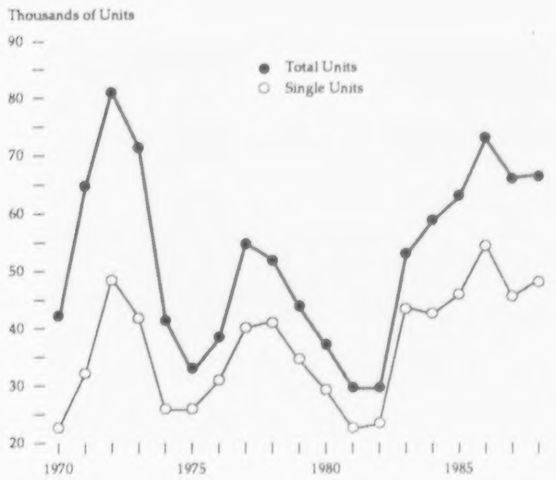
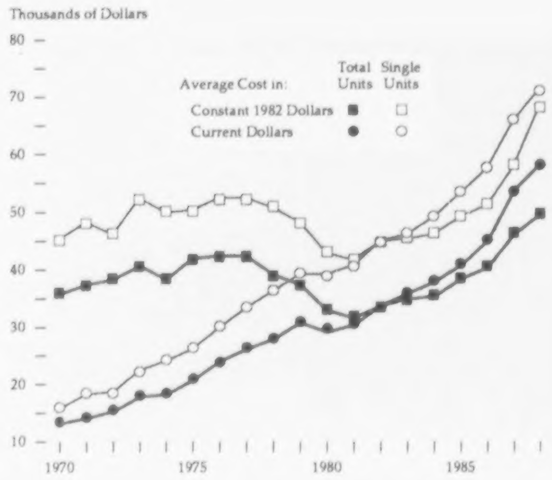


FIGURE 2.
Average Value of Residential Permits Per Unit, 1970–1988



Average per-unit cost data show a substantial increase over 1987, rising 7.2 percent, from $66,297 to $71,098 per unit.

Virginia's construction industry fared much better than the entire nation's in 1988. During the year a total of 1.45 million permits were issued in the U.S., compared to 1.52 million in 1987, a decline of 4.6 percent. In Virginia the number of permits issued (excluding mobile home permits) increased slightly, by less than 1 percent. For single-family units, however, the U.S. statistics are considerably worse than the Commonwealth's. Nationally, single-family unit permits declined from 1.03 million in 1987 to 1 million in 1988, a decrease of about 3 percent. In Virginia the number of single-family permits increased by 5.5 percent.

A significant proportion of all building permits issued in the Commonwealth was concentrated in just five of the state's twenty-two planning districts (PDs). The Northern Virginia PD, which includes Fairfax County and other localities near Washington, D.C., led the state with 21,721 permits, or 31 percent of all permits issued statewide. The Richmond Regional PD, which includes Richmond City and its surrounding suburban localities, issued 9,900 permits—14.1 percent of the state total. The Southeastern Virginia PD, which includes Virginia Beach City and surrounding jurisdictions, ranked third with 9,248 permits issued—13.2 percent of the state total. Peninsula PD, which includes Hampton and Newport News cities, was in fourth place with 4,790 permits, nearly 7 percent of the state total. RADCO PD, which includes the area around Fredericksburg City, issued 4,222 permits, 6 percent of the state total. Combined, these five PDs accounted for 49,881 residential permits, 71.3 percent of all permits issued in Virginia.

Another way of looking at the concentration of building activity in Virginia is to focus on the state's eight Metropolitan Statistical Areas (MSAs). MSAs are groups of economically and socially integrated counties and cities whose boundaries are defined by the Office of Management and Budget. Six MSAs—Charlottesville, Danville, Lynchburg, Norfolk–Virginia Beach–Newport News (shortened to Norfolk in the tables), Richmond–Petersburg (referred to as Richmond in the tables), and Roanoke—lie wholly within Virginia's borders, as do portions of two others—Washington, D.C. (referred to as Northern Virginia), and Johnson City–Kingsport–Bristol (referred to as Bristol).

Because metropolitan areas contain the state's largest cities and counties, and thus most of the population, it is not surprising to find that a majority of the state's building activity is also located in these areas. In fact, construction and population statistics over the past several years show that building activity is slightly more concentrated in the state's eight MSAs than is the population.

Three of the state's MSAs had particularly high levels of building activity during 1988. Northern Virginia (that portion of the Washington, D.C. MSA in Virginia) issued permits for 23,831 units, equivalent to 34 percent of the state total. The Norfolk–Virginia Beach–Portsmouth MSA issued 13,531 permits, nearly a fifth of the state total. The Richmond–Petersburg MSA issued 10,517 permits, or 15 percent of the total.

Eleven localities issued one thousand or more residential building permits for single-family units. Fairfax County issued the greatest number—7,314. Following Fairfax were Prince William County (3,516), Chesterfield County (3,109), Virginia Beach City (2,977), Henrico County (2,144), Loudoun County (1,946), Chesapeake City (1,775), Spotsylvania County (1,466), Hanover County (1,275), Hampton City (1,221), and Newport News City (1,040). See **Figure 3** for additional information on the distribution of building permits for individual localities.

Only four localities issued as many as one thousand residential building permits for units in multiunit structures. Fairfax County led the state with 3,824 permits. Henrico County ranked second with 2,129; Arlington County was in third place with 1,945, and Virginia Beach City issued 1,561.

Statewide Nonresidential Trends

Residential permit activity is often taken as indicative of the attractiveness of a locality to individuals and families. The statistics presented in this report on nonresidential building activity may be interpreted in much the same way, with the difference that the "attraction" is towards the business community. There is, quite naturally, a significant degree of overlap between the location of residential and nonresidential building activity, with population converging around business locations, and businesses decentralizing to move closer to consumers and the labor force.

During 1988, 11,850 permits for nonresidential buildings were issued, an 8.7 percent increase over the 10,903 permits issued during 1987. The current dollar value of these permits was $2.51 billion, an increase of 26.8 percent over last year (see **Table 2**). In constant 1982 dollars the 1988 total is $2.11 billion, the highest figure since we began tabulating nonresidential building permits in 1980.

In analyzing nonresidential construction by building type, it is important to distinguish between the number of permits issued in a particular category and the dollar value for that same category. For example, a majority of building permits are issued in the "other" nonresidential building category, which includes such structures as barns, silos, pump houses, and certain types of government owned buildings. In 1988 over two-thirds (68.3%) of all permits issued were in this category, but the aggregate value of these permits equaled only 3.1 percent of the state total. By way of contrast, the category "office, bank, and professional buildings" accounted for less than 10 percent of the total number of permits issued, but their aggregate value was 45 percent of the state total.

Based on dollar volume, office, bank, and professional buildings ranked first with an aggregate value of $1,131 million, an increase of 24 percent over their 1987 value. This category was followed by stores and mercantile buildings at $711 million (up a third over 1987). In third place were industrial buildings, at $191 million, an increase of 38 percent over last year. Parking garages ranked fourth, with permits valued at $150 million, up nearly 70 percent from their 1987 value. Church, hospital, and school buildings came fifth, with permits valued at $137 million, down 18 percent from their value last year. **Figure 4** shows the number of permits issued in each of four nonresidential building categories annually from 1980 to 1988. **Figure 5** shows the aggregate value of these permits in constant dollars. None of the other nonresidential building categories accounted for as much as five percent of total state value.

Nonresidential construction is even more highly concentrated in specific areas of the state than residential construction. Tabulated by value, 53.4 percent of the state total was located in the Northern Virginia PD, while the Richmond Regional PD contributed 12.4 percent of the state total. The Southeastern Virginia PD accounted for 8.1 percent and the Peninsula PD for another 5.1 percent of the total. Combined, these four planning districts

FIGURE 3.
Total Permits Issued, 1988

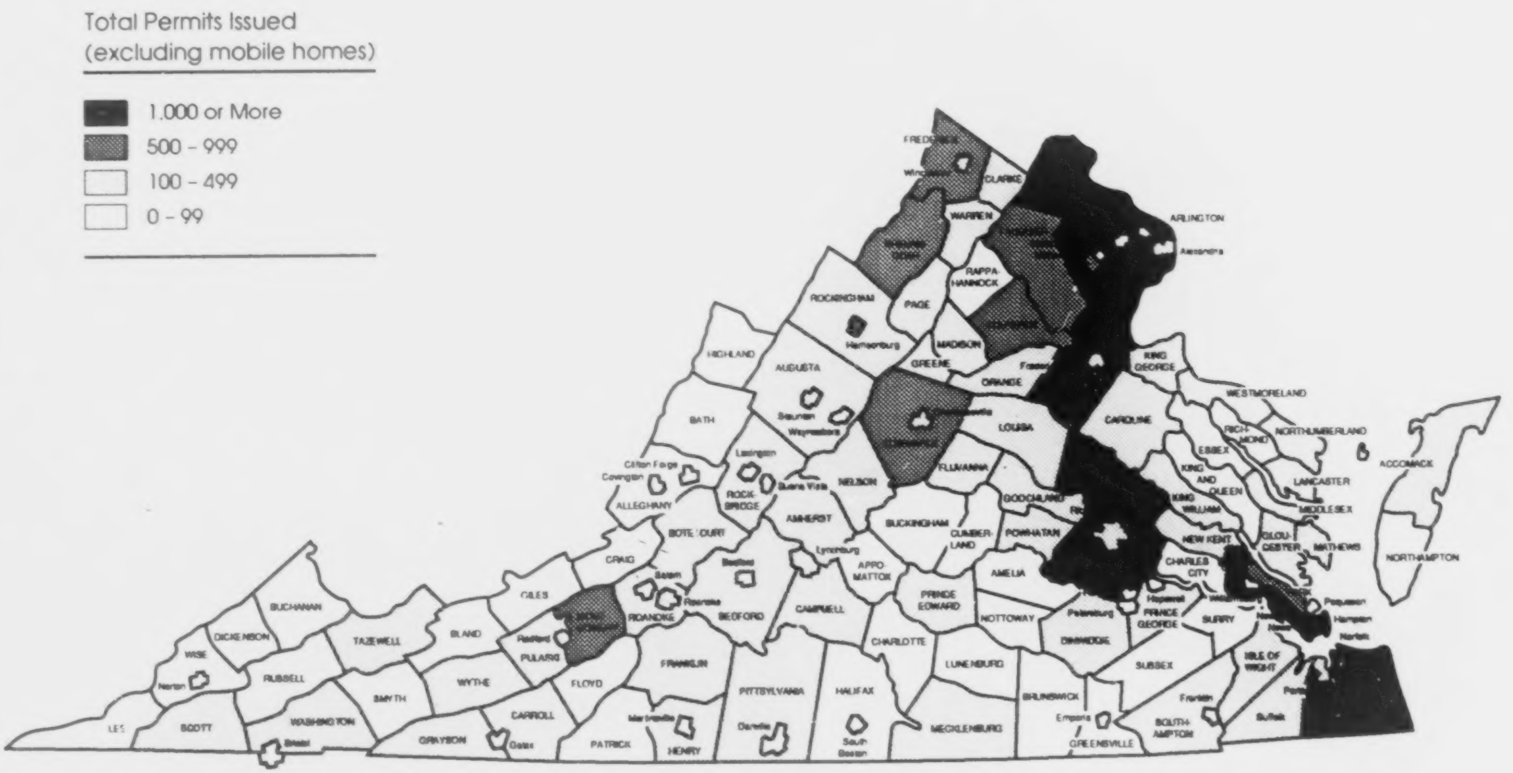

Total Permits Issued
(excluding mobile homes)
1,000 or More
500 - 999
100 - 499
0 - 99
FREDERICK
Winchester
CLARKE
WARREN
ARLINGTON
Alexandria
RAPPA-HANNOCK
ROCKINGHAM
PAGE
Harrisonburg
MADISON
GREENE
HIGHLAND
AUGUSTA
ORANGE
KING GEORGE
WESTMORELAND
Staunton
Waynesboro
BATH
LOUISA
CAROLINE
RICH-MOND
NORTHUMBERLAND
ESSEX
ACCOMACK
Clifton Forge
Covington
Lexington
FLUVANNA
NELSON
KING AND QUEEN
LANCASTER
ALLEGHANY
ROCK-BRIDGE
Buena Vista
GOOCHLAND
MIDDLESEX
AMHERST
BUCKINGHAM
CUMBER-LAND
POWHATAN
KING WILLIAM
BOTETOURT
NEW KENT
GLOU-CESTER
MATHEWS
NORTHAMPTON
CRAIG
Lynchburg
APPO-MATTOX
AMELIA
CHARLES CITY
Salem
Bedford
GILES
Roanoke
CAMPBELL
PRINCE EDWARD
Hopewell
Williamsburg
Poquoson
Hampton
BUCHANAN
ROANOKE
BEDFORD
NOTTOWAY
Petersburg
PRINCE GEORGE
SURRY
Norfolk
DICKENSON
TAZEWELL
BLAND
Radford
CHARLOTTE
DINWIDDIE
WISE
PULASKI
FRANKLIN
LUNENBURG
SUSSEX
ISLE OF WIGHT
RUSSELL
WYTHE
FLOYD
Norton
SMYTH
PITTSYLVANIA
HALIFAX
BRUNSWICK
Franklin
Suffolk
LEE
SCOTT
WASHINGTON
CARROLL
Martinsville
Danville
MECKLENBURG
Emporia
SOUTH-AMPTON
Bristol
GRAYSON
Galax
PATRICK
HENRY
South Boston
GREENSVILLE

FIGURE 4.
Number of Nonresidential Permits Issued, by Type, 1970–88

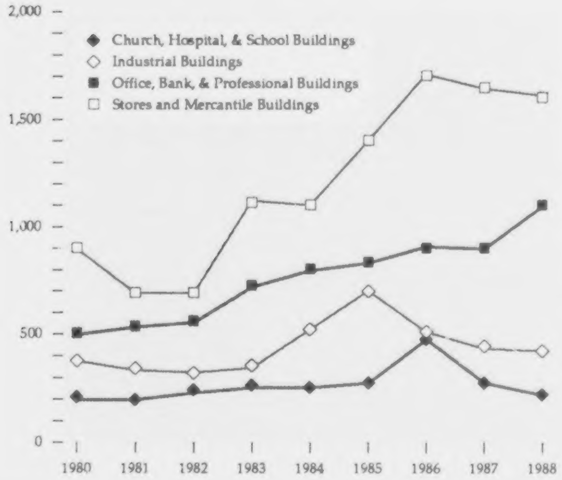
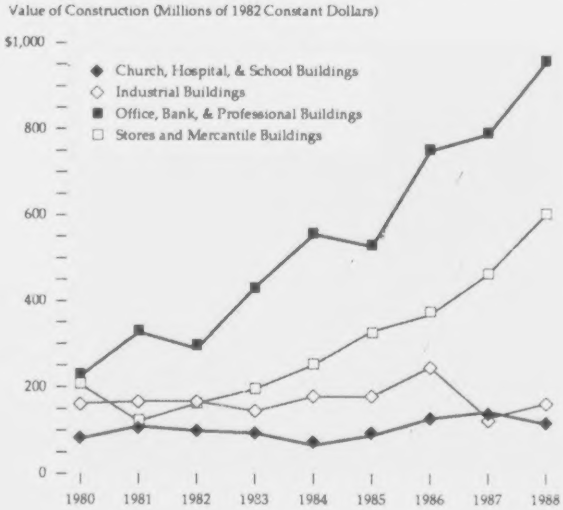


FIGURE 5.
Aggregate Value of Nonresidential Permits Issued, by Type, 1970–88



accounted for nearly four–fifths of the total value of nonresidential construction in the state, but for only half of the total number of permits issued.

Eighteen localities issued permits valued over $5 million for the construction of new office, bank, or professional buildings. The top five localities were Fairfax County ($597 million); Arlington County ($117 million); Richmond City ($72 million); Henrico County ($63 million); and Alexandria City ($45 million). Other localities with over $5 million, listed in descending order, include Chesterfield County, Virginia Beach City, Newport News City, Chesapeake City, Manassas City, Prince William County, Spotsylvania County, Stafford County, Roanoke City, Campbell County, Loudoun County, Fairfax City, and Hanover County.

A total of 26 localities issued permits valued at $5 million or more in the category of stores and mercantile buildings. The five leading localities in this category were Arlington County, ($100 million); Fairfax County, ($99 million); Alexandria City, ($44 million); Prince William County, ($40 million); and James City County, ($37 million).

Fourteen localities issued permits valued at $5 million or more in the category of industrial buildings. The leaders in this category were Loudoun County ($28 million), Henrico County ($14 million), Augusta County ($11 million), Chesterfield County ($10 million), and Chesapeake City ($9 million).

Only four jurisdictions issued permits valued at $5 million or more in the category of parking garages. These included Fairfax County, at $72 million, Alexandria City, at $35 million, Arlington County, at $24 million, and Richmond City, at $12 million.

Finally, nine jurisdictions issued permits valued at $5 million or more in the category of church, hospital, or school buildings. These were Fairfax County ($17 million), Virginia Beach City ($11 million), Henrico County ($11 million), Arlington County ($10 million), Martinsville City ($7 million), Roanoke City ($6 million), Manassas City ($5 million), Franklin City ($5 million), and Newport News City ($5 million).

TABLE 3.
Residential Building Permits Issued in Virginia Localities, 1988

Line	Jurisdiction	Total Units Authorized Number	Total Units Authorized $000	Total Mobile Units Number	Total Mobile Units $000	Total Private Units Number	Total Private Units $000	Single Units Number	Single Units $000
	COUNTIES								
1	Accomack[1]	334	17,164.7	0	0.0	334	17,164.7	292	15,797.7
2	Albemarle	590	57,088.5	0	0.0	590	57,088.5	531	53,265.0
3	Alleghany	108	2,208.5	79	1,001.4	29	1,207.1	29	1,207.1
4	Amelia	98	3,831.1	35	554.1	63	3,277.0	63	3,277.0
5	Amherst	131	7,718.7	0	0.0	131	7,718.7	121	7,404.7
6	Appomattox	153	4,320.4	108	1,455.7	45	2,864.8	41	2,769.8
7	Arlington	2,218	163,324.5	0	0.0	2,218	163,324.5	273	25,294.5
8	Augusta	474	33,643.9	0	0.0	474	33,643.9	470	33,359.9
9	Bath	20	1,870.7	0	0.0	20	1,870.7	20	1,870.7
10	Bedford	955	NA	480	NA	475	NA	463	NA
11	Bland	81	2,142.1	48	311.6	33	1,830.5	29	1,702.0
12	Botetourt	259	14,062.2	59	NA	200	14,062.2	187	13,679.2
13	Brunswick	258	5,536.1	210	3,100.8	48	2,435.3	46	2,415.3
14	Buchanan	34	1,359.8	0	0.0	34	1,359.8	34	1,359.8
15	Buckingham	220	4,928.9	166	1,895.2	54	3,033.7	54	3,033.7
16	Campbell	294	16,873.9	0	0.0	294	16,873.9	260	15,973.9
17	Caroline[2]	243	14,108.2	0	0.0	243	14,108.2	237	13,927.8
18	Carroll	122	6,310.4	0	0.0	122	6,310.4	105	5,822.4
19	Charles City	41	2,729.7	0	0.0	41	2,729.7	41	2,729.7
20	Charlotte	47	2,356.3	0	0.0	47	2,356.3	47	2,356.3
21	Chesterfield	3,397	206,762.2	0	0.0	3,397	206,762.2	3,109	197,949.2
22	Clarke	127	13,833.5	0	0.0	127	13,833.5	127	13,833.5
23	Craig[3]	46	1,175.5	21	282.4	25	893.1	25	893.1
24	Culpeper	862	45,095.2	0	0.0	862	45,095.2	518	36,117.9
25	Cumberland	60	2,098.7	27	374.7	33	1,724.0	33	1,724.0
26	Dickenson	51	1,416.8	0	0.0	51	1,416.8	51	1,416.8
27	Dinwiddie	253	10,166.2	0	0.0	253	10,166.2	221	9,785.2
28	Essex	95	4,055.9	49	734.6	46	3,321.3	46	3,321.3
29	Fairfax	11,138	690,677.1	0	0.0	11,138	690,677.1	7,314	581,762.5
30	Fauquier	851	129,878.5	0	0.0	851	129,878.5	843	129,686.5
31	Floyd	179	3,261.4	105	NA	74	3,261.4	74	3,261.4
32	Fluvanna	300	20,145.0	13	33.5	287	20,111.5	287	20,111.5
33	Franklin	406	27,032.0	0	0.0	406	27,032.0	406	27,032.0
34	Frederick	758	48,506.8	0	0.0	758	48,506.8	746	48,206.8
35	Giles	151	2,046.6	110	552.9	41	1,493.7	38	1,418.7
36	Gloucester	317	26,213.2	0	0.0	317	26,213.2	309	25,953.2
37	Goochland	209	17,623.7	0	0.0	209	17,623.7	209	17,623.7
38	Grayson	259	6,440.1	135	1,336.2	124	5,103.9	90	4,072.7
39	Greene	167	10,028.7	16	372.1	151	9,656.6	151	9,656.6
40	Greensville	74	2,058.2	59	1,059.7	15	998.5	15	998.5

Duplex Units		3–4 Units		5+ Units		Demolitions			Total Housing Units Less Number of Demolitions	Line
Number	$000	Number	$000	Number	$000	Private	Public	Total		
16	427.0	12	240.0	14	700.0	0	0	0	334	1
0	0.0	26	1,183.0	33	2,640.5	0	0	0	590	2
0	0.0	0	0.0	0	0.0	9	0	9	99	3
0	0.0	0	0.0	0	0.0	0	0	0	98	4
10	314.0	0	0.0	0	0.0	8	0	8	123	5
4	95.0	0	0.0	0	0.0	2	0	2	151	6
0	0.0	0	0.0	1,945	138,030.0	40	0	40	2,178	7
0	0.0	4	284.0	0	0.0	7	0	7	467	8
0	0.0	0	0.0	0	0.0	2	0	2	18	9
0	0.0	0	0.0	12	0.0	0	0	0	955	10
0	0.0	4	128.5	0	0.0	0	0	0	81	11
0	0.0	7	203.0	6	180.0	5	0	5	254	12
2	20.0	0	0.0	0	0.0	0	0	0	258	13
0	0.0	0	0.0	0	0.0	1	0	1	33	14
0	0.0	0	0.0	0	0.0	0	0	0	220	15
2	25.0	0	0.0	32	875.0	29	0	29	265	16
2	60.5	4	120.0	0	0.0	0	0	0	243	17
10	415.0	0	0.0	7	73.0	0	0	0	122	18
0	0.0	0	0.0	0	0.0	3	0	3	38	19
0	0.0	0	0.0	0	0.0	1	0	1	46	20
0	0.0	0	0.0	288	8,813.0	0	0	0	3,397	21
0	0.0	0	0.0	0	0.0	2	0	2	125	22
0	0.0	0	0.0	0	0.0	0	0	0	46	23
2	245.0	12	272.3	330	8,460.0	5	0	5	857	24
0	0.0	0	0.0	0	0.0	0	0	0	60	25
0	0.0	0	0.0	0	0.0	0	0	0	51	26
32	381.0	0	0.0	0	0.0	0	0	0	253	27
0	0.0	0	0.0	0	0.0	2	0	2	93	28
0	0.0	32	1,148.7	3,792	107,765.9	64	0	64	11,074	29
8	192.0	0	0.0	0	0.0	1	0	1	850	30
0	0.0	0	0.0	0	0.0	0	0	0	179	31
0	0.0	0	0.0	0	0.0	0	0	0	300	32
0	0.0	0	0.0	0	0.0	6	0	6	400	33
12	300.0	0	0.0	0	0.0	0	0	0	758	34
0	0.0	3	75.0	0	0.0	3	0	3	148	35
8	260.0	0	0.0	0	0.0	0	0	0	317	36
0	0.0	0	0.0	0	0.0	0	0	0	209	37
2	33.6	0	0.0	32	997.6	0	0	0	259	38
0	0.0	0	0.0	0	0.0	0	0	0	167	39
0	0.0	0	0.0	0	0.0	0	0	0	74	40

TABLE 3. (continued)
Residential Building Permits Issued in Virginia Localities, 1988

		Total Units Authorized		Total Mobile Units		Total Private Units		Single Units	
Line	Jurisdiction	Number	$000	Number	$000	Number	$000	Number	$000
	COUNTIES (continued)								
41	Halifax	321	7,747.6	231	3,708.6	90	4,039.1	90	4,039.1
42	Hanover	1,275	73,905.5	0	0.0	1,275	73,905.5	1,275	73,905.5
43	Henrico	4,273	164,942.6	0	0.0	4,273	164,942.6	2,144	123,856.7
44	Henry	216	14,269.9	0	0.0	216	14,269.9	194	13,759.9
45	Highland	28	592.7	10	105.5	18	487.2	18	487.2
46	Isle of Wight	572	24,305.7	252	NA	320	24,305.7	260	22,382.5
47	James City	1,000	97,058.5	0	0.0	1,000	97,058.5	731	82,406.0
48	King and Queen	32	1,530.1	8	64.6	24	1,465.5	24	1,465.5
49	King George	218	11,216.3	66	NA	152	11,216.3	146	10,966.7
50	King William[4]	130	7,463.5	0	0.0	130	7,463.5	130	7,463.5
51	Lancaster	198	14,788.5	11	280.1	187	14,508.4	161	13,973.4
52	Lee	73	2,653.8	0	0.0	73	2,653.8	73	2,653.8
53	Loudoun	2,737	138,466.0	0	0.0	2,737	138,466.0	1,946	114,551.7
54	Louisa	315	13,587.2	0	0.0	315	13,587.2	315	13,587.2
55	Lunenburg	76	1,815.3	57	765.2	19	1,050.2	19	1,050.2
56	Madison	129	8,431.0	7	62.2	122	8,368.8	118	8,233.8
57	Mathews	114	5,436.2	11	NA	103	5,436.2	73	4,986.2
58	Mecklenburg[5]	117	7,004.7	0	0.0	117	7,004.7	117	7,004.7
59	Middlesex	172	8,542.5	62	717.8	110	7,824.6	110	7,824.6
60	Montgomery	748	34,724.9	0	0.0	748	34,724.9	495	27,889.6
61	Nelson	189	16,498.6	0	0.0	189	16,498.6	187	16,448.6
62	New Kent	185	10,874.0	0	0.0	185	10,874.0	185	10,874.0
63	Northampton	104	4,939.4	28	292.1	76	4,647.3	76	4,647.3
64	Northumberland	216	15,560.1	34	463.0	182	15,097.1	182	15,097.1
65	Nottoway	54	1,615.7	28	230.2	26	1,385.5	26	1,385.5
66	Orange	300	20,712.3	18	NA	282	20,712.3	269	20,121.1
67	Page	193	7,790.3	44	642.0	149	7,148.3	145	7,128.3
68	Patrick	227	4,860.0	153	1,572.9	74	3,287.1	74	3,287.1
69	Pittsylvania	301	16,133.3	0	0.0	301	16,133.3	284	15,606.3
70	Powhatan	237	14,490.0	0	0.0	237	14,490.0	232	14,390.0
71	Prince Edward	142	5,236.9	37	439.2	105	4,797.7	48	2,754.6
72	Prince George	180	11,475.1	0	0.0	180	11,475.1	180	11,475.1
73	Prince William[6]	4,328	252,061.0	0	0.0	4,328	252,061.0	3,516	231,471.6
74	Pulaski	149	6,665.5	0	0.0	149	6,665.5	109	5,870.5
75	Rappahannock	81	9,420.0	1	10.0	80	9,410.0	80	9,410.0
76	Richmond[3]	55	1,453.8	30	368.0	25	1,085.8	20	1,033.8
77	Roanoke	482	28,193.8	0	0.0	482	28,193.8	428	25,525.0
78	Rockbridge	150	9,594.9	0	0.0	150	9,594.9	138	9,054.9
79	Rockingham	451	28,937.4	0	0.0	451	28,937.4	357	25,799.4
80	Russell	56	2,853.5	0	0.0	56	2,853.5	56	2,853.5

Duplex Units		3–4 Units		5+ Units		Demolitions			Total Housing Units Less Number of Demolitions	Line
Number	$000	Number	$000	Number	$000	Private	Public	Total		
0	0.0	0	0.0	0	0.0	0	0	0	321	41
0	0.0	0	0.0	0	0.0	1	0	1	1,274	42
0	0.0	12	355.5	2,117	40,730.4	41	0	41	4,232	43
2	65.0	14	295.0	6	150.0	0	0	0	216	44
0	0.0	0	0.0	0	0.0	0	0	0	28	45
0	0.0	0	0.0	60	1,923.3	0	0	0	572	46
18	1,014.0	38	5,280.5	213	8,358.0	2	0	2	998	47
0	0.0	0	0.0	0	0.0	0	0	0	32	48
2	54.5	4	195.0	0	0.0	0	0	0	218	49
0	0.0	0	0.0	0	0.0	13	0	13	117	50
2	35.0	0	0.0	24	500.0	0	0	0	198	51
0	0.0	0	0.0	0	0.0	0	0	0	73	52
0	0.0	0	0.0	791	23,914.3	0	0	0	2,737	53
0	0.0	0	0.0	0	0.0	0	0	0	315	54
0	0.0	0	0.0	0	0.0	0	0	0	76	55
0	0.0	4	135.0	0	0.0	0	0	0	129	56
0	0.0	0	0.0	30	450.0	2	0	2	112	57
0	0.0	0	0.0	0	0.0	3	0	3	114	58
0	0.0	0	0.0	0	0.0	0	0	0	172	59
76	2,338.7	15	395.0	162	4,101.6	14	0	14	734	60
2	50.0	0	0.0	0	0.0	0	0	0	189	61
0	0.0	0	0.0	0	0.0	4	0	4	181	62
0	0.0	0	0.0	0	0.0	1	0	1	103	63
0	0.0	0	0.0	0	0.0	0	0	0	216	64
0	0.0	0	0.0	0	0.0	7	0	7	47	65
4	141.2	4	200.0	5	250.0	0	0	0	300	66
0	0.0	4	20.0	0	0.0	3	0	3	190	67
0	0.0	0	0.0	0	0.0	0	0	0	227	68
8	304.0	4	68.0	5	155.0	1	0	1	300	69
0	0.0	0	0.0	5	100.0	0	0	0	237	70
0	0.0	0	0.0	57	2,043.1	7	0	7	135	71
0	0.0	0	0.0	0	0.0	0	0	0	180	72
0	0.0	278	6,305.6	534	14,283.7	15	0	15	4,313	73
2	50.0	20	305.0	18	440.0	4	0	4	145	74
0	0.0	0	0.0	0	0.0	1	0	1	80	75
2	52.0	3	NA	0	0.0	0	0	0	55	76
2	52.4	4	95.8	48	2,520.6	20	0	20	462	77
4	120.0	0	0.0	8	420.0	0	0	0	150	78
4	260.0	8	230.0	82	2,648.0	0	0	0	451	79
0	0.0	0	0.0	0	0.0	0	0	0	56	80

TABLE 3. (continued)
Residential Building Permits Issued in Virginia Localities, 1988

		Total Units Authorized		Total Mobile Units		Total Private Units		Single Units	
Line	Jurisdiction	Number	$000	Number	$000	Number	$000	Number	$000
	COUNTIES (continued)								
81	Scott	104	3,508.1	0	0.0	104	3,508.1	79	3,043.1
82	Shenandoah	557	28,445.1	0	0.0	557	28,445.1	377	23,350.8
83	Smyth	95	3,682.0	0	0.0	95	3,682.0	89	3,472.0
84	Southampton	218	5,827.0	118	1,779.8	100	4,047.1	64	3,507.1
85	Spotsylvania	1,529	150,503.0	0	0.0	1,529	150,503.0	1,507	149,952.5
86	Stafford	2,110	133,819.7	0	0.0	2,110	133,819.7	1,466	116,109.5
87	Surry	80	2,763.8	35	285.4	45	2,478.4	45	2,478.4
88	Sussex	144	2,905.3	67	918.6	77	1,986.6	19	1,101.6
89	Tazewell	128	9,332.4	0	0.0	128	9,332.4	118	9,150.4
90	Warren[7]	422	28,474.4	13	210.4	409	28,264.1	339	21,863.0
91	Washington	296	18,549.7	0	0.0	296	18,549.7	234	16,600.0
92	Westmoreland	182	11,448.7	37	1,109.5	145	10,339.2	145	10,339.2
93	Wise[8]	260	4,431.2	163	NA	97	4,431.2	95	4,281.2
94	Wythe	329	9,099.8	207	2,430.1	122	6,669.8	105	6,234.8
95	York	696	43,786.6	0	0.0	696	43,786.6	502	37,537.6
	CITIES								
96	Alexandria	499	33,449.0	0	0.0	499	33,449.0	116	12,690.4
97	Bedford	25	854.0	3	NA	22	854.0	8	425.0
98	Bristol	39	1,823.5	0	0.0	39	1,823.5	39	1,823.5
99	Buena Vista	17	818.6	0	0.0	17	818.6	17	818.6
100	Charlottesville	151	9,825.0	0	0.0	151	9,825.0	42	2,047.1
101	Chesapeake	2,083	169,160.7	0	0.0	2,083	169,160.7	1,775	159,033.6
102	Clifton Forge	3	137.0	0	0.0	3	137.0	3	137.0
103	Colonial Heights	66	4,851.3	0	0.0	66	4,851.3	60	4,687.3
104	Covington	2	53.5	0	0.0	2	53.5	2	53.5
105	Danville	50	3,331.7	0	0.0	50	3,331.7	39	3,089.7
106	Emporia	16	702.7	1	25.0	15	677.7	5	397.7
107	Fairfax	67	7,625.7	0	0.0	67	7,625.7	67	7,625.7
108	Falls Church	16	3,519.2	0	0.0	16	3,519.2	16	3,519.2
109	Franklin	34	2,476.1	0	0.0	34	2,476.1	25	2,282.1
110	Federicksburg	122	4,748.2	0	0.0	122	4,748.2	122	4,748.2
111	Galax	59	1,529.7	6	NA	53	1,529.7	9	539.2
112	Hampton	1,435	59,188.1	0	0.0	1,435	59,188.1	1,221	53,110.7
113	Harrisonburg	537	26,119.0	0	0.0	537	26,119.0	253	18,537.0
114	Hopewell	79	2,789.7	0	0.0	79	2,789.7	67	2,523.2
115	Lexington	17	1,032.0	0	0.0	17	1,032.0	9	780.0

Duplex Units		3–4 Units		5+ Units		Demolitions			Total Housing Units Less Number of Demolitions	Line
Number	$000	Number	$000	Number	$000	Private	Public	Total		
0	0.0	4	77.3	21	387.7	0	0	0	104	81
2	28.0	6	315.0	172	4,751.3	5	0	5	552	82
2	116.0	4	94.0	0	0.0	5	0	5	90	83
0	0.0	0	0.0	36	540.0	5	0	5	213	84
0	0.0	0	0.0	22	550.5	5	0	5	1,524	85
14	479.0	32	408.0	598	16,823.2	4	0	4	2,106	86
0	0.0	0	0.0	0	0.0	3	0	3	77	87
2	45.0	0	0.0	56	840.0	1	0	1	143	88
2	56.0	3	40.0	5	86.0	0	0	0	128	89
0	0.0	0	0.0	70	6,401.1	8	0	8	414	90
8	118.4	4	80.0	50	1,751.3	10	0	10	286	91
0	0.0	0	0.0	0	0.0	0	0	0	182	92
2	150.0	0	0.0	0	0.0	1	0	1	259	93
2	45.0	3	90.0	12	300.0	7	0	7	322	94
0	0.0	8	252.0	186	5,997.0	20	0	20	676	95
0	0.0	0	0.0	383	20,758.6	19	0	19	480	96
14	429.0	0	0.0	0	0.0	19	0	19	6	97
0	0.0	0	0.0	0	0.0	19	0	19	20	98
0	0.0	0	0.0	0	0.0	0	0	0	17	99
20	627.9	0	0.0	89	7,150.0	10	0	10	141	100
36	1,166.0	12	505.9	260	8,455.2	62	0	62	2,021	101
0	0.0	0	0.0	0	0.0	1	0	1	2	102
2	64.0	4	100.0	0	0.0	2	0	2	64	103
0	0.0	0	0.0	0	0.0	0	0	0	2	104
2	42.0	0	0.0	9	200.0	47	0	47	3	105
0	0.0	10	280.0	0	0.0	10	0	10	6	106
0	0.0	0	0.0	0	0.0	1	0	1	66	107
0	0.0	0	0.0	0	0.0	0	0	0	16	108
2	39.0	7	155.0	0	0.0	3	0	3	31	109
0	0.0	0	0.0	0	0.0	7	0	7	115	110
0	0.0	0	0.0	44	990.5	0	0	0	59	111
0	0.0	0	0.0	214	6,077.4	36	0	36	1,399	112
8	420.0	137	3,162.0	139	4,000.0	14	0	14	523	113
4	106.4	8	160.0	0	0.0	78	0	78	1	114
8	252.0	0	0.0	0	0.0	0	0	0	17	115

TABLE 3. (continued)
Residential Building Permits Issued in Virginia Localities, 1988

		Total Units Authorized		Total Mobile Units		Total Private Units		Single Units	
Line	Jurisdiction	Number	$000	Number	$000	Number	$000	Number	$000
	CITIES (continued)								
116	Lynchburg	195	9,615.1	0	0.0	195	9,615.1	115	7,891.1
117	Manassas	718	33,062.4	0	0.0	718	33,062.4	348	23,492.2
118	Manassas Park	0	0.0	0	0.0	0	0.0	0	0.0
119	Martinsville	54	2,171.4	0	0.0	54	2,171.4	23	1,346.9
120	Newport News	1,555	76,045.0	0	0.0	1,555	76,045.0	1,040	56,712.0
121	Norfolk	1,082	32,078.0	0	0.0	1,082	32,078.0	252	12,928.5
122	Norton	18	269.0	13	NA	5	269.0	5	269.0
123	Petersburg	39	1,248.5	0	0.0	39	1,248.5	33	1,180.5
124	Poquoson[4]	63	6,632.9	0	0.0	63	6,632.9	63	6,632.9
125	Portsmouth	247	13,942.1	0	0.0	247	13,942.1	221	13,077.0
126	Radford	207	7,528.6	11	17.9	196	7,510.7	36	2,355.7
127	Richmond	283	16,884.2	0	0.0	283	16,884.2	238	15,409.7
128	Roanoke	219	8,308.4	0	0.0	219	8,308.4	117	6,093.7
129	Salem	82	5,120.7	0	0.0	82	5,120.7	82	5,120.7
130	South Boston	13	870.6	0	0.0	13	870.6	13	870.6
131	Staunton	134	6,133.9	0	0.0	134	6,133.9	56	4,208.9
132	Suffolk[4]	474	30,014.7	0	0.0	474	30,014.7	326	25,018.3
133	Virginia Beach	4,538	271,215.1	0	0.0	4,538	271,215.1	2,977	218,298.3
134	Waynesboro	83	3,778.0	3	21.0	80	3,757.0	41	2,960.0
135	Williamsburg	41	6,074.0	0	0.0	41	6,074.0	37	5,769.1
136	Winchester	281	11,361.5	0	0.0	281	11,361.5	65	7,276.5
	PLANNING DISTRICT DATA								
137	LENOWISCO	455	10,862.1	176	NA	279	10,862.1	252	10,247.1
138	Cumberland Plateau	269	14,962.5	0	0.0	269	14,962.5	259	14,780.5
139	Mount Rogers	1,280	49,577.4	396	4,077.8	884	45,499.6	700	40,266.6
140	New River Valley	1,434	54,227.0	226	570.8	1,208	53,656.2	752	40,795.9
141	Fifth	1,201	59,259.6	159	1,283.8	1,042	57,975.8	873	52,709.3
142	Central Shenandoah	1,911	112,521.1	13	126.5	1,898	112,394.6	1,379	97,876.6
143	Lord Fairfax	2,338	138,411.6	57	852.4	2,281	137,559.3	1,799	121,658.8
144	Northern Virginia	21,721	1,322,184.9	0	0.0	21,721	1,322,184.9	13,596	1,000,407.8
145	Rappahannock-Rapidan	2,223	213,536.8	26	72.2	2,197	213,464.6	1,828	203,569.2
146	Thomas Jefferson	1,712	127,173.0	29	405.6	1,683	126,767.4	1,513	115,116.0
147	Central Virginia	1,753	39,382.1	591	1,455.7	1,162	37,926.5	1,008	34,464.5
148	West Piedmont	1,254	67,798.2	153	1,572.9	1,101	66,225.3	1,020	64,121.8
149	Southside	709	21,159.0	441	6,809.4	268	14,349.6	266	14,329.6
150	Piedmont	697	21,882.9	350	4,258.5	347	17,624.4	290	15,581.3
151	Richmond Regional	9,900	508,211.9	0	0.0	9,900	508,211.9	7,433	456,738.4

Duplex Units		3–4 Units		5+ Units		Demolitions			Total Housing Units Less Number of Demolitions	Line
Number	$000	Number	$000	Number	$000	Private	Public	Total		
32	924.0	0	0.0	48	800.0	47	0	47	148	116
0	0.0	0	0.0	370	9,570.2	3	0	3	715	117
0	0.0	0	0.0	0	0.0	0	0	0	0	118
16	349.5	9	325.0	6	150.0	28	0	28	26	119
14	818.0	48	1,503.0	453	17,012.0	62	0	62	1,493	120
182	5,658.7	62	1,093.2	586	12,397.7	476	0	476	606	121
0	0.0	0	0.0	0	0.0	2	0	2	16	122
6	68.0	0	0.0	0	0.0	53	0	53	–14	123
0	0.0	0	0.0	0	0.0	2	0	2	61	124
26	865.1	0	0.0	0	0.0	58	0	58	189	125
0	0.0	0	0.0	160	5,155.0	30	0	30	177	126
2	52.6	8	472.0	35	950.0	102	0	102	181	127
44	959.7	19	380.0	39	875.0	42	0	42	177	128
0	0.0	0	0.0	0	0.0	13	0	13	69	129
0	0.0	0	0.0	0	0.0	0	0	0	13	130
0	0.0	0	0.0	78	1,925.0	4	0	4	130	131
24	1,187.3	32	1,255.1	92	2,554.0	73	0	73	401	132
102	6,815.4	186	7,910.0	1,273	38,191.4	81	0	81	4,457	133
0	0.0	18	422.0	21	375.0	7	0	7	76	134
0	0.0	4	304.9	0	0.0	6	0	6	35	135
2	80.0	20	214.0	194	3,791.0	24	0	24	257	136
2	150.0	4	77.3	21	387.7	3	0	3	452	137
2	56.0	3	40.0	5	86.0	1	0	1	268	138
24	728.0	15	392.5	145	4,112.4	41	0	41	1,239	139
78	2,388.7	38	775.0	340	9,696.6	51	0	51	1,383	140
46	1,012.1	30	678.8	93	3,575.6	90	0	90	1,111	141
24	1,052.0	167	4,098.0	328	9,368.0	34	0	34	1,877	142
16	408.0	30	549.0	436	14,943.4	42	0	42	2,296	143
0	0.0	310	7,454.4	7,815	314,322.8	142	0	142	21,579	144
14	578.2	20	607.3	335	8,710.0	7	0	7	2,216	145
22	677.9	26	1,183.0	122	9,790.5	10	0	10	1,702	146
62	1,787.0	0	0.0	92	1,675.0	105	0	105	1,648	147
28	760.5	27	688.0	26	655.0	82	0	82	1,172	148
2	20.0	0	0.0	0	0.0	3	0	3	706	149
0	0.0	0	0.0	57	2,043.1	15	0	15	682	150
2	52.6	20	827.5	2,445	50,593.4	151	0	151	9,749	151

TABLE 3. (continued)
Residential Building Permits Issued in Virginia Localities, 1988

		Total Units Authorized		Total Mobile Units		Total Private Units		Single Units	
Line	Jurisdiction	Number	$000	Number	$000	Number	$000	Number	$000
	PLANNING DISTRICTS (continued)								
152	RADCO	4,222	314,395.4	66	NA	4,156	314,395.4	3,478	295,704.7
153	Northern Neck	651	43,251.1	112	2,220.7	539	41,030.5	508	40,443.5
154	Middle Peninsula	860	53,241.4	130	1,517.0	730	51,724.4	692	51,014.4
155	Crater	931	38,960.6	162	2,288.7	769	36,671.9	645	34,627.5
156	Southeastern Virginia	9,248	549,019.5	370	1,779.8	8,878	547,239.6	5,900	456,527.4
157	Peninsula	4,790	288,785.0	0	0.0	4,790	288,785.0	3,594	242,168.3
158	Accomack-Northampton	438	22,104.2	28	292.1	410	21,812.1	368	20,445.1
	METROPOLITAN STATISTICAL AREAS								
159	Bristol (Va. portion)	439	23,881.3	0	0.0	439	23,881.3	352	21,466.6
160	Charlottesville	1,208	97,087.2	29	405.6	1,179	96,681.6	1,011	85,080.2
161	Danville	351	19,465.0	0	0.0	351	19,465.0	323	18,696.0
162	Lynchburg	620	34,207.7	0	0.0	620	34,207.7	496	31,269.7
163	Norfolk	13,531	831,408.8	0	0.0	13,531	831,408.8	9,454	696,477.2
164	Northern Virginia	23,831	1,456,004.6	0	0.0	23,831	1,456,004.6	15,062	1,116,517.3
165	Richmond	10,517	538,742.6	0	0.0	10,517	538,742.6	7,994	486,389.6
166	Roanoke	1,042	55,685.0	59	NA	983	55,685.0	814	50,418.6
167	TOTAL METROPOLITAN	51,539	3,056,482.3	88	405.6	51,451	3,056,076.7	35,506	2,506,315.2
168	TOTAL NON-METROPOLITAN	18,458	1,014,424.9	3,397	29,178.2	15,061	985,246.7	12,647	917,278.9
169	TOTAL COUNTIES	54,354	3,194,518.6	3,448	29,519.9	50,906	3,164,998.6	38,170	2,727,813.8
170	TOTAL CITIES	15,643	876,388.7	37	63.9	15,606	876,324.8	9,983	695,780.2
171	VIRGINIA	69,997	4,070,907.2	3,485	29,583.8	66,512	4,041,323.4	48,153	3,423,594.0

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[1] Onancock Town did not report. The balance of Accomack County reported 12 months.
[2] Bowling Green Town did not report. The balance of Caroline County reported 12 months.
[3] Reported 6 months.
[4] Reported 11 months.
[5] Chase City Town did not report. The balance of Mecklenburg County reported 12 months.
[6] Dumfries Town reported 8 months. The balance of Prince William County reported 12 months.
[7] Reported 9 months.
[8] St. Paul Town reported 11 months. The balance of Wise County reported 12 months.

NOTE: NA = Data not available.

Duplex Units		3–4 Units		5+ Units		Demolitions			Total Housing Units Less Number of Demolitions	Line
Number	$000	Number	$000	Number	$000	Private	Public	Total		
18	594.0	40	723.0	620	17,373.7	16	0	16	4,206	152
4	87.0	3	NA	24	500.0	0	0	0	651	153
8	260.0	0	0.0	30	450.0	17	0	17	843	154
46	664.4	22	540.0	56	840.0	147	0	147	784	155
372	15,731.4	299	10,919.2	2,307	64,061.6	758	0	758	8,490	156
32	1,832.0	98	7,340.4	1,066	37,444.4	128	0	128	4,662	157
16	427.0	12	240.0	14	700.0	1	0	1	437	158
8	118.4	8	157.3	71	2,138.9	29	0	29	410	159
20	627.9	26	1,183.0	122	9,790.5	10	0	10	1,198	160
10	346.0	4	68.0	14	355.0	48	0	48	303	161
44	1,263.0	0	0.0	80	1,675.0	84	0	84	536	162
410	17,784.4	390	18,104.6	3,277	99,042.7	878	0	878	12,653	163
14	479.0	342	7,862.4	8,413	331,146.0	146	0	146	23,685	164
46	672.0	32	1,087.5	2,445	50,593.4	284	0	284	10,233	165
46	1,012.1	30	678.8	93	3,575.6	80	0	80	962	166
598	22,302.8	832	29,141.6	14,515	498,317.2	1,559	0	1,559	49,980	167
220	6,964.0	332	7,991.9	1,862	53,012.0	285	0	285	18,173	168
272	8,342.3	580	18,891.3	11,884	409,951.2	403	0	403	53,951	169
546	20,924.5	584	18,242.1	4,493	141,378.0	1,441	0	1,441	14,202	170
818	29,266.8	1,164	37,133.4	16,377	551,329.2	1,844	0	1,844	68,153	171

TABLE 4.
Nonresidential Building Permits Issued in Virginia Localities, 1988

		Total Nonresidential Buildings Authorized		Amusement & Recreational Buildings		Church, Hospital & School Buildings		Industrial Buildings	
Line	Jurisdiction	Number	$000	Number	$000	Number	$000	Number	$000
	COUNTIES								
1	Accomack[1]	87	2,671.1	1	10.0	2	365.0	1	25.0
2	Albemarle	184	24,514.1	1	1,540.0	1	375.0	3	5,236.3
3	Alleghany	37	814.1	2	128.5	0	0.0	1	200.0
4	Amelia	11	552.5	0	0.0	0	0.0	9	85.5
5	Amherst	45	1,918.2	1	5.0	2	25.0	5	153.2
6	Appomattox	21	255.0	0	0.0	0	0.0	1	65.0
7	Arlington	17	250,762.9	0	0.0	3	10,052.0	0	0.0
8	Augusta	299	19,504.3	2	17.0	3	2,126.0	5	11,371.9
9	Bath	15	619.4	0	0.0	0	0.0	1	119.3
10	Bedford[2]	–	–	–	–	–	–	–	–
11	Bland	4	516.9	2	216.7	0	0.0	1	288.6
12	Botetourt	75	1,215.2	3	115.5	1	92.0	1	31.0
13	Brunswick	56	3,170.9	0	0.0	1	70.0	0	0.0
14	Buchanan	23	2,506.5	0	0.0	1	172.4	0	0.0
15	Buckingham	50	1,576.9	1	77.0	1	24.0	3	170.5
16	Campbell	122	13,061.7	2	168.5	3	1,948.1	3	1,411.9
17	Caroline[3]	4	866.0	0	0.0	0	0.0	2	576.0
18	Carroll	68	2,628.8	1	50.0	5	1,452.0	0	0.0
19	Charles City	33	451.3	0	0.0	0	0.0	0	0.0
20	Charlotte	21	3,462.6	2	15.0	3	1,900.0	2	1,315.4
21	Chesterfield	314	79,721.5	3	5,500.4	7	4,525.0	22	9,496.8
22	Clarke	30	375.6	0	0.0	0	0.0	1	30.0
23	Craig[2]	–	–	–	–	–	–	–	–
24	Culpeper	42	6,942.6	4	323.0	1	172.4	3	1,918.9
25	Cumberland	17	518.2	3	48.0	1	105.0	0	0.0
26	Dickenson	6	19.2	0	0.0	0	0.0	0	0.0
27	Dinwiddie	155	1,328.9	0	0.0	0	0.0	3	266.0
28	Essex	47	1,037.0	1	9.9	1	240.0	0	0.0
29	Fairfax[4]	775	790,651.2	2	4,420.0	13	17,416.8	2	72.5
30	Fauquier	225	7,968.9	0	0.0	1	300.0	9	553.3
31	Floyd	16	343.0	0	0.0	0	0.0	0	0.0
32	Fluvanna	25	1,599.2	1	3.5	2	713.0	1	600.0
33	Franklin	393	8,143.1	3	67.0	4	1,570.0	4	499.3
34	Frederick	150	10,472.5	0	0.0	3	735.0	20	4,256.4
35	Giles	46	4,756.1	0	0.0	1	25.0	2	4,000.0
36	Gloucester	41	12,217.8	1	1,395.0	2	1,363.7	3	242.0
37	Goochland	61	727.2	0	0.0	0	0.0	0	0.0
38	Grayson[2]	–	–	–	–	–	–	–	–
39	Greene	54	1,423.9	1	474.0	1	426.3	1	65.3
40	Greensville	0	0.0	0	0.0	0	0.0	0	0.0

Parking Garages		Service Stations & Repair Garages		Office, Bank & Professional Buildings		Public Works & Utilities Buildings		Stores & Mercantile Buildings		Other Nonresidential Buildings		
Number	$000	Number	$000	Number	$000	Number	$000	Number	$000	Number	$000	Line
0	0.0	1	36.0	3	1,526.0	1	25.0	8	215.0	70	469.1	1
0	0.0	2	278.0	10	2,022.6	2	261.6	29	13,182.5	136	1,618.2	2
0	0.0	1	15.0	2	107.0	1	200.0	3	108.8	27	54.8	3
0	0.0	0	0.0	1	438.0	0	0.0	1	29.0	0	0.0	4
0	0.0	0	0.0	3	1,228.0	1	15.0	1	301.2	32	190.8	5
0	0.0	4	113.8	0	0.0	0	0.0	0	0.0	16	76.2	6
2	23,627.0	0	0.0	8	116,583.9	0	0.0	4	100,500.0	0	0.0	7
0	0.0	2	187.0	8	1,411.9	3	195.6	18	2,139.9	258	2,055.1	8
1	47.0	2	226.0	0	0.0	0	0.0	0	0.0	11	227.1	9
–	–	–	–	–	–	–	–	–	–	–	–	10
0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	11.6	11
0	0.0	2	15.3	3	265.0	0	0.0	2	221.0	63	475.5	12
0	0.0	1	500.0	4	2,418.0	0	0.0	0	0.0	50	182.9	13
0	0.0	2	32.0	2	12.9	0	0.0	12	1,923.5	6	365.7	14
0	0.0	5	67.5	0	0.0	0	0.0	5	278.0	35	959.9	15
0	0.0	7	601.1	25	6,800.0	1	13.0	27	1,180.0	54	939.2	16
0	0.0	0	0.0	0	0.0	0	0.0	1	40.0	1	250.0	17
0	0.0	2	78.0	2	76.9	0	0.0	4	255.0	54	716.9	18
0	0.0	0	0.0	1	126.0	0	0.0	3	185.3	29	140.0	19
0	0.0	0	0.0	1	60.0	0	0.0	2	40.0	11	132.2	20
0	0.0	0	0.0	141	35,577.0	0	0.0	131	23,503.8	10	1,118.5	21
0	0.0	1	20.0	1	100.0	0	0.0	4	85.0	23	140.6	22
–	–	–	–	–	–	–	–	–	–	–	–	23
0	0.0	1	224.0	8	3,172.1	0	0.0	5	1,010.7	20	121.4	24
0	0.0	0	0.0	0	0.0	1	20.2	2	108.0	10	237.0	25
0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6	19.2	26
0	0.0	0	0.0	0	0.0	0	0.0	2	155.0	150	907.9	27
0	0.0	1	27.0	3	20.0	0	0.0	2	551.9	39	188.2	28
27	71,955.9	0	0.0	335	596,830.4	0	0.0	307	98,890.1	89	1,065.5	29
0	0.0	3	358.0	12	3,613.7	3	20.1	3	650.0	194	2,473.9	30
0	0.0	0	0.0	0	0.0	0	0.0	8	302.3	8	40.7	31
0	0.0	1	150.0	1	95.0	0	0.0	0	0.0	19	37.7	32
0	0.0	8	318.0	4	584.5	5	86.0	7	560.0	358	4,458.2	33
0	0.0	0	0.0	1	350.0	0	0.0	36	4,339.5	90	791.6	34
0	0.0	2	60.0	3	345.1	0	0.0	2	94.0	36	232.0	35
0	0.0	0	0.0	4	723.5	1	2,900.0	30	5,593.6	0	0.0	36
0	0.0	0	0.0	0	0.0	0	0.0	1	42.4	60	684.9	37
–	–	–	–	–	–	–	–	–	–	–	–	38
0	0.0	0	0.0	0	0.0	0	0.0	2	266.9	49	191.5	39
0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	40

TABLE 4. (continued)
Nonresidential Building Permits Issued in Virginia Localities, 1988

		Total Nonresidential Buildings Authorized		Amusement & Recreational Buildings		Church, Hospital & School Buildings		Industrial Buildings	
Line	Jurisdiction	Number	$000	Number	$000	Number	$000	Number	$000
	COUNTIES (continued)								
41	Halifax	0	0.0	0	0.0	0	0.0	0	0.0
42	Hanover	109	15,040.9	9	2,290.0	0	0.0	2	1,263.2
43	Henrico	351	123,593.8	14	1,741.9	11	10,992.4	8	13,754.0
44	Henry	82	27,756.3	5	826.2	3	180.0	3	2,049.0
45	Highland	38	252.9	0	0.0	0	0.0	0	0.0
46	Isle of Wight	30	6,513.4	0	0.0	0	0.0	8	1,336.4
47	James City	14	43,353.8	2	1,548.0	1	300.0	0	0.0
48	King and Queen	11	50.8	0	0.0	0	0.0	0	0.0
49	King George	8	572.0	0	0.0	0	0.0	0	0.0
50	King William[4]	5	2,089.8	0	0.0	1	1,700.0	2	200.8
51	Lancaster	75	4,152.4	0	0.0	3	490.0	0	0.0
52	Lee	27	470.0	0	0.0	7	90.3	3	56.8
53	Loudoun	49	65,764.3	1	1,961.8	0	0.0	19	28,022.7
54	Louisa	22	2,252.4	0	0.0	1	86.0	4	181.0
55	Lunenburg	6	202.5	0	0.0	0	0.0	1	38.0
56	Madison	42	341.1	0	0.0	1	35.0	1	80.0
57	Mathews	3	130.7	0	0.0	0	0.0	0	0.0
58	Mecklenburg[5]	126	2,398.6	0	0.0	2	335.0	1	80.0
59	Middlesex	55	857.5	0	0.0	0	0.0	0	0.0
60	Montgomery	105	16,745.3	0	0.0	2	494.0	3	5,374.0
61	Nelson	72	1,034.8	0	0.0	1	20.0	0	0.0
62	New Kent	33	458.6	0	0.0	0	0.0	1	35.0
63	Northampton	30	1,395.0	0	0.0	1	75.0	0	0.0
64	Northumberland	4	170.0	0	0.0	0	0.0	1	40.0
65	Nottoway	20	2,043.2	0	0.0	6	684.0	10	1,166.2
66	Orange	51	3,655.7	0	0.0	0	0.0	6	2,468.9
67	Page	186	1,899.0	0	0.0	0	0.0	0	0.0
68	Patrick	33	396.0	0	0.0	0	0.0	1	40.0
69	Pittsylvania	171	6,143.3	1	10.2	3	2,450.0	10	1,663.9
70	Powhatan	11	949.0	0	0.0	0	0.0	4	342.0
71	Prince Edward	25	1,635.1	0	0.0	1	30.0	0	0.0
72	Prince George	64	10,616.8	0	0.0	0	0.0	0	0.0
73	Prince William[6]	182	61,056.8	16	1,731.7	1	250.0	18	5,519.8
74	Pulaski	19	5,621.5	2	152.0	0	0.0	0	0.0
75	Rappahannock	0	0.0	0	0.0	0	0.0	0	0.0
76	Richmond[2]	–	–	–	–	–	–	–	–
77	Roanoke	108	11,481.2	2	1,841.9	8	1,792.8	2	1,263.2
78	Rockbridge	66	3,533.0	1	789.0	3	406.0	0	0.0
79	Rockingham	439	10,256.4	0	0.0	1	55.0	4	1,801.1
80	Russell	1	90.0	0	0.0	0	0.0	0	0.0

Parking Garages		Service Stations & Repair Garages		Office, Bank & Professional Buildings		Public Works & Utilities Buildings		Stores & Mercantile Buildings		Other Nonresidential Buildings		
Number	$000	Number	$000	Number	$000	Number	$000	Number	$000	Number	$000	Line
0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	41
0	0.0	1	210.0	18	5,486.6	1	335.5	13	4,598.8	65	856.8	42
0	0.0	4	845.1	33	62,566.3	3	902.2	57	30,934.2	221	1,857.8	43
0	0.0	2	63.0	1	70.0	0	0.0	29	24,253.9	39	314.2	44
0	0.0	0	0.0	0	0.0	0	0.0	1	20.0	37	232.9	45
0	0.0	0	0.0	1	1,000.0	0	0.0	0	0.0	21	4,177.0	46
0	0.0	0	0.0	6	3,975.8	0	0.0	4	37,480.0	1	50.0	47
0	0.0	1	22.0	0	0.0	0	0.0	0	0.0	10	28.8	48
0	0.0	1	100.0	4	283.0	0	0.0	3	189.0	0	0.0	49
0	0.0	0	0.0	1	178.0	0	0.0	1	11.0	0	0.0	50
0	0.0	5	705.0	10	2,166.8	1	29.0	2	310.0	54	451.7	51
0	0.0	4	74.0	0	0.0	2	11.5	6	168.7	5	68.7	52
0	0.0	0	0.0	3	6,558.4	0	0.0	26	29,221.4	0	0.0	53
0	0.0	0	0.0	3	242.1	2	155.3	7	1,461.5	5	126.5	54
0	0.0	0	0.0	1	150.0	0	0.0	0	0.0	4	14.5	55
0	0.0	1	6.5	0	0.0	0	0.0	1	45.0	38	174.6	56
0	0.0	1	100.0	2	30.7	0	0.0	0	0.0	0	0.0	57
0	0.0	0	0.0	2	385.6	0	0.0	2	295.0	119	1,302.9	58
0	0.0	1	35.0	2	600.0	0	0.0	2	17.5	50	205.0	59
0	0.0	2	113.6	14	2,892.2	0	0.0	30	7,488.6	54	382.9	60
0	0.0	0	0.0	4	332.6	0	0.0	3	460.0	64	222.3	61
0	0.0	0	0.0	0	0.0	2	32.5	3	236.0	27	155.1	62
0	0.0	0	0.0	1	21.0	0	0.0	6	1,101.1	22	197.9	63
0	0.0	2	80.0	0	0.0	0	0.0	0	0.0	1	50.0	64
0	0.0	2	93.0	1	50.0	1	50.0	0	0.0	0	0.0	65
0	0.0	0	0.0	1	115.0	3	146.4	2	166.9	39	758.4	66
0	0.0	2	108.0	2	475.0	1	7.0	0	0.0	181	1,309.0	67
0	0.0	0	0.0	0	0.0	0	0.0	4	178.0	28	178.0	68
0	0.0	8	221.5	7	335.7	2	65.0	5	377.0	135	1,020.0	69
0	0.0	2	68.0	2	205.0	0	0.0	0	0.0	3	334.0	70
0	0.0	0	0.0	2	212.0	0	0.0	8	1,355.6	14	37.5	71
0	0.0	0	0.0	0	0.0	0	0.0	2	438.0	62	10,178.8	72
0	0.0	5	701.0	21	11,163.2	6	1,330.5	52	39,933.0	63	427.6	73
0	0.0	0	0.0	4	939.0	0	0.0	2	41.0	11	4,489.5	74
0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	75
–	–	–	–	–	–	–	–	–	–	–	–	76
0	0.0	1	102.2	13	3,104.2	4	679.0	9	2,058.5	69	639.4	77
0	0.0	0	0.0	0	0.0	0	0.0	6	1,875.0	56	463.0	78
0	0.0	1	5.0	4	682.0	4	976.0	9	594.8	416	6,142.5	79
0	0.0	0	0.0	1	90.0	0	0.0	0	0.0	0	0.0	80

TABLE 4. (continued)
Nonresidential Building Permits Issued in Virginia Localities, 1988

		Total Nonresidential Buildings Authorized		Amusement & Recreational Buildings		Church, Hospital & School Buildings		Industrial Buildings	
Line	Jurisdiction	Number	$000	Number	$000	Number	$000	Number	$000
	COUNTIES (continued)								
81	Scott	10	2,812.9	1	310.0	1	1,700.0	1	100.0
82	Shenandoah	222	3,998.9	0	0.0	6	1,442.0	0	0.0
83	Smyth	24	8,664.2	1	5.0	4	183.0	7	6,424.0
84	Southampton	130	1,385.0	0	0.0	2	588.0	2	139.0
85	Spotsylvania	391	19,908.3	1	45.0	1	344.2	9	2,139.9
86	Stafford	69	15,864.7	4	373.1	4	350.0	7	1,552.5
87	Surry	5	18,532.0	0	0.0	1	80.0	0	0.0
88	Sussex	9	6,471.4	0	0.0	1	201.0	3	3,930.4
89	Tazewell	35	1,787.0	1	10.0	2	160.0	4	309.6
90	Warren[2]	–	–	–	–	–	–	–	–
91	Washington	61	6,795.3	1	53.3	5	527.9	6	1,789.1
92	Westmoreland	0	0.0	0	0.0	0	0.0	0	0.0
93	Wise[7]	38	3,038.0	0	0.0	3	300.9	1	200.0
94	Wythe	67	16,038.3	0	0.0	3	499.0	1	150.0
95	York	60	9,394.6	4	443.9	1	444.0	0	0.0
	CITIES								
96	Alexandria	32	128,867.8	1	300.0	2	3,616.9	0	0.0
97	Bedford	1	1,140.0	0	0.0	0	0.0	0	0.0
98	Bristol	25	2,014.7	0	0.0	2	917.5	0	0.0
99	Buena Vista	4	5,188.0	0	0.0	0	0.0	2	5,140.0
100	Charlottesville	30	7,973.4	1	45.0	1	245.2	1	3,000.0
101	Chesapeake	94	56,901.3	3	204.2	5	2,348.8	13	9,323.4
102	Clifton Forge	0	0.0	0	0.0	0	0.0	0	0.0
103	Colonial Heights	71	26,011.1	0	0.0	0	0.0	0	0.0
104	Covington	11	1,161.0	0	0.0	0	0.0	4	836.0
105	Danville	88	5,060.4	0	0.0	1	254.5	2	1,271.0
106	Emporia	24	2,960.3	0	0.0	2	2,615.0	4	204.9
107	Fairfax	19	13,156.0	0	0.0	2	815.0	0	0.0
108	Falls Church	1	137.0	0	0.0	0	0.0	0	0.0
109	Franklin	37	8,921.0	2	2,555.8	2	5,174.0	0	0.0
110	Fredericksburg	39	4,750.0	1	730.1	0	0.0	3	658.9
111	Galax	5	2,527.8	0	0.0	0	0.0	1	1,638.8
112	Hampton	1,225	22,570.5	0	0.0	3	3,820.0	20	4,221.9
113	Harrisonburg	72	10,962.9	0	0.0	0	0.0	0	0.0
114	Hopewell	23	10,751.9	0	0.0	0	0.0	5	1,151.5
115	Lexington	1	7,360.0	1	7,360.0	0	0.0	0	0.0

Parking Garages		Service Stations & Repair Garages		Office, Bank & Professional Buildings		Public Works & Utilities Buildings		Stores & Mercantile Buildings		Other Nonresidential Buildings		
Number	$000	Number	$000	Number	$000	Number	$000	Number	$000	Number	$000	Line
0	0.0	0	0.0	2	448.9	0	0.0	3	160.0	2	94.0	81
0	0.0	0	0.0	5	327.0	0	0.0	2	1,166.0	209	1,063.9	82
0	0.0	2	280.0	2	350.8	0	0.0	7	1,418.5	1	3.0	83
0	0.0	0	0.0	0	0.0	1	51.8	9	355.0	116	251.3	84
0	0.0	6	279.0	32	8,671.2	1	49.0	73	7,523.6	268	856.4	85
0	0.0	1	28.8	29	7,719.5	1	14.7	18	5,749.5	5	76.7	86
0	0.0	0	0.0	0	0.0	3	18,400.0	1	52.0	0	0.0	87
0	0.0	0	0.0	2	1,630.0	0	0.0	3	710.0	0	0.0	88
1	70.2	2	37.5	1	433.3	0	0.0	3	121.0	21	645.5	89
–	–	–	–	–	–	–	–	–	–	–	–	90
0	0.0	6	344.3	2	153.0	1	5.0	19	3,799.0	21	123.6	91
0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	92
0	0.0	3	46.2	0	0.0	0	0.0	9	2,383.5	22	107.4	93
0	0.0	0	0.0	4	211.0	0	0.0	20	15,065.6	39	112.7	94
0	0.0	2	50.0	9	3,792.0	5	295.9	34	4,335.1	5	33.7	95
7	35,131.5	0	0.0	13	45,274.1	0	0.0	9	44,545.3	0	0.0	96
0	0.0	0	0.0	0	0.0	0	0.0	1	1,140.0	0	0.0	97
0	0.0	2	141.0	2	290.0	0	0.0	5	402.7	14	263.5	98
0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	48.0	99
0	0.0	0	0.0	4	3,433.0	0	0.0	6	1,032.5	17	217.8	100
0	0.0	1	310.0	34	16,382.8	0	0.0	34	28,172.3	4	159.8	101
0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	102
0	0.0	0	0.0	4	1,121.0	2	281.0	7	24,559.1	58	50.0	103
0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7	325.0	104
0	0.0	1	115.0	5	695.0	0	0.0	7	2,399.6	72	325.3	105
0	0.0	1	22.0	3	68.0	0	0.0	1	24.0	13	26.4	106
2	895.0	0	0.0	9	5,950.0	0	0.0	5	5,389.2	1	106.8	107
0	0.0	0	0.0	1	137.0	0	0.0	0	0.0	0	0.0	108
0	0.0	0	0.0	2	511.0	0	0.0	5	469.8	26	210.4	109
0	0.0	1	18.0	5	2,952.8	0	0.0	1	296.5	28	93.8	110
0	0.0	0	0.0	0	0.0	0	0.0	4	889.0	0	0.0	111
0	0.0	0	0.0	2	2,468.0	0	0.0	45	9,268.6	1,155	2,791.9	112
1	4,310.0	6	491.3	12	2,616.0	0	0.0	20	3,370.4	33	175.2	113
0	0.0	1	40.0	0	0.0	1	9,206.0	3	198.0	13	156.4	114
0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	115

TABLE 4. (continued)
Nonresidential Building Permits Issued in Virginia Localities, 1988

Line	Jurisdiction	Total Nonresidential Buildings Authorized		Amusement & Recreational Buildings		Church, Hospital & School Buildings		Industrial Buildings	
		Number	$000	Number	$000	Number	$000	Number	$000
	CITIES (continued)								
116	Lynchburg	83	12,726.7	0	0.0	4	692.8	7	5,190.0
117	Manassas	53	24,042.9	0	5.0	6	5,257.7	4	1,740.0
118	Manassas Park	34	3,657.4	0	0.0	0	0.0	10	2,644.0
119	Martinsville	9	9,031.0	0	0.0	1	6,600.0	1	200.0
120	Newport News	731	50,054.1	1	6.7	7	5,185.3	18	7,857.6
121	Norfolk	264	20,173.4	0	0.0	2	4,139.1	20	5,121.5
122	Norton	4	647.0	0	0.0	1	25.0	0	0.0
123	Petersburg	11	3,061.1	0	0.0	3	903.0	2	665.0
124	Poquoson[4]	4	373.0	1	30.0	0	0.0	0	0.0
125	Portsmouth[4]	205	16,116.9	2	3,475.0	0	0.0	2	33.0
126	Radford	1	380.0	0	0.0	0	0.0	0	0.0
127	Richmond	83	90,628.5	2	128.5	3	421.0	3	710.2
128	Roanoke	91	27,233.3	0	0.0	4	6,278.0	16	4,613.9
129	Salem	39	10,468.7	1	418.0	0	0.0	4	1,548.2
130	South Boston	5	1,043.4	0	0.0	0	0.0	0	0.0
131	Staunton	11	2,734.3	0	0.0	0	0.0	1	1,700.0
132	Suffolk[4]	212	21,479.1	1	2,500.0	1	2,800.0	0	0.0
133	Virginia Beach	713	70,552.8	9	1,006.0	13	11,100.0	13	5,327.0
134	Waynesboro	65	8,690.9	0	0.0	0	0.0	1	96.6
135	Williamsburg	11	1,464.7	0	0.0	0	0.0	0	0.0
136	Winchester	56	3,473.2	0	0.0	0	0.0	0	0.0
	PLANNING DISTRICTS								
137	LENOWISCO	79	6,967.9	1	310.0	12	2,116.2	5	356.8
138	Cumberland Plateau	65	4,402.7	1	10.0	3	332.4	4	309.6
139	Mount Rogers	254	39,185.9	5	325.0	19	3,579.4	16	10,290.6
140	New River Valley	187	27,845.8	2	152.0	3	519.0	5	9,374.0
141	Fifth	361	52,373.4	8	2,503.9	13	8,162.8	28	8,492.3
142	Central Shenandoah	1,010	69,102.0	4	8,166.0	7	2,587.0	14	20,228.9
143	Lord Fairfax	644	20,219.1	0	0.0	9	2,177.0	21	4,286.4
144	Northern Virginia	1,162	1,338,096.3	20	8,418.4	27	37,408.3	53	37,999.0
145	Rappahannock-Rapidan	360	18,908.2	4	323.0	3	507.4	19	5,021.1
146	Thomas Jefferson	387	38,797.9	4	2,062.5	7	1,865.4	10	9,082.6
147	Central Virginia	272	29,101.6	3	173.5	9	2,665.9	16	6,820.1
148	West Piedmont	776	56,530.0	9	903.4	12	11,054.5	21	5,723.2
149	Southside	187	6,612.8	0	0.0	3	405.0	1	80.0
150	Piedmont	150	9,991.0	6	140.0	12	2,743.0	25	2,775.6
151	Richmond Regional	995	311,570.9	28	9,660.8	21	15,938.4	40	25,601.2

Parking Garages		Service Stations & Repair Garages		Office, Bank & Professional Buildings		Public Works & Utilities Buildings		Stores & Mercantile Buildings		Other Nonresidential Buildings		
Number	$000	Number	$000	Number	$000	Number	$000	Number	$000	Number	$000	Line
0	0.0	1	185.0	8	2,441.0	0	0.0	14	3,998.5	49	219.4	116
0	0.0	0	0.0	29	12,039.0	0	0.0	5	3,652.6	9	1,348.7	117
0	0.0	0	0.0	0	0.0	0	0.0	2	944.5	22	68.9	118
0	0.0	1	3.0	0	0.0	0	0.0	6	2,228.0	0	0.0	119
0	0.0	7	1,463.0	24	17,899.5	1	14.5	45	15,111.4	628	2,516.1	120
1	400.0	2	6,658.0	4	484.0	0	0.0	11	2,483.9	224	887.0	121
0	0.0	0	0.0	3	622.0	0	0.0	0	0.0	0	0.0	122
0	0.0	0	0.0	3	386.0	0	0.0	3	1,107.1	0	0.0	123
0	0.0	0	0.0	2	305.0	0	0.0	0	0.0	1	38.0	124
0	0.0	1	250.0	1	544.8	0	0.0	29	10,838.7	170	975.3	125
0	0.0	0	0.0	1	380.0	0	0.0	0	0.0	0	0.0	126
4	12,434.4	7	1,530.8	12	72,155.4	0	0.0	21	3,093.3	31	154.9	127
0	0.0	0	0.0	11	8,088.1	1	110.0	18	6,982.7	41	1,160.4	128
0	0.0	2	608.0	3	153.5	0	0.0	12	7,471.9	17	269.1	129
0	0.0	0	0.0	0	0.0	0	0.0	5	1,043.4	0	0.0	130
0	0.0	0	0.0	3	845.0	1	19.8	0	0.0	6	169.5	131
0	0.0	0	0.0	12	1,962.7	0	0.0	30	13,530.7	168	685.7	132
1	700.0	9	2,955.0	42	26,630.5	5	310.0	51	20,868.2	570	1,656.1	133
0	0.0	2	59.2	2	157.3	1	60.0	20	7,586.6	39	731.3	134
0	0.0	0	0.0	4	746.0	0	0.0	1	700.0	6	18.7	135
0	0.0	2	199.0	4	446.8	0	0.0	22	2,800.7	28	26.7	136
0	0.0	7	120.2	5	1,070.9	2	11.5	18	2,712.2	29	270.1	137
1	70.2	4	69.5	4	536.1	0	0.0	15	2,044.5	33	1,030.4	138
0	0.0	12	843.3	12	1,081.7	1	5.0	59	21,829.8	130	1,231.3	139
0	0.0	4	173.6	22	4,556.3	0	0.0	42	7,925.9	109	5,145.1	140
0	0.0	6	740.4	32	11,717.8	6	989.0	44	16,842.9	224	2,924.2	141
2	4,357.0	13	968.5	29	5,712.1	9	1,251.4	74	15,586.6	858	10,244.5	142
0	0.0	5	327.0	13	1,698.8	1	7.0	64	8,391.1	531	3,331.7	143
38	131,609.4	5	701.0	419	794,536.0	6	1,330.5	410	323,076.1	184	3,017.5	144
0	0.0	5	588.5	21	6,900.8	6	166.5	11	1,872.6	291	3,528.3	145
0	0.0	3	428.0	22	6,125.3	4	416.9	47	16,403.4	290	2,413.9	146
0	0.0	12	899.9	36	10,469.0	2	28.0	43	6,619.6	151	1,425.6	147
0	0.0	20	720.5	17	1,685.2	7	151.0	58	29,996.5	632	6,295.7	148
0	0.0	1	500.0	6	2,803.6	0	0.0	7	1,338.4	169	1,485.9	149
0	0.0	7	160.5	6	910.0	2	70.2	18	1,810.6	74	1,381.1	150
4	12,434.4	14	2,653.9	207	176,116.4	6	1,270.2	229	62,593.8	446	5,301.9	151

TABLE 4. (continued)
Nonresidential Building Permits Issued in Virginia Localities, 1988

		Total Nonresidential Buildings Authorized		Amusement & Recreational Buildings		Church, Hospital & School Buildings		Industrial Buildings	
Line	Jurisdiction	Number	$000	Number	$000	Number	$000	Number	$000
	PLANNING DISTRICTS (continued)								
152	RADCO	511	41,961.0	6	1,148.2	5	694.2	21	4,927.2
153	Northern Neck	79	4,322.4	0	0.0	3	490.0	1	40.0
154	Middle Peninsula	162	16,383.5	2	1,404.9	4	3,303.7	5	442.8
155	Crater	362	79,733.5	0	0.0	7	3,799.0	17	6,217.7
156	Southeastern Virginia	1,685	202,042.8	17	9,741.0	25	26,149.9	58	21,280.3
157	Peninsula	2,045	127,210.7	8	2,028.6	12	9,749.3	38	12,079.4
158	Accomack-Northampton	117	4,066.1	1	10.0	3	440.0	1	25.0
	METROPOLITAN STATISTICAL AREAS								
159	Bristol (Va. portion)	96	11,622.8	2	363.3	8	3,145.4	7	1,889.1
160	Charlottesville	293	35,510.7	4	2,062.5	5	1,759.4	6	8,901.6
161	Danville	259	11,203.7	1	10.2	4	2,704.5	12	2,934.9
162	Lynchburg	250	27,706.6	3	173.5	9	2,665.9	15	6,755.1
163	Norfolk	3,574	324,651.8	24	10,608.7	35	31,500.9	89	32,126.3
164	Northern Virginia	1,231	1,353,961.0	24	8,791.5	31	37,758.3	60	39,551.5
165	Richmond	1,319	363,340.7	28	9,660.8	24	16,841.4	50	27,683.6
166	Roanoke	313	50,398.3	6	2,375.4	13	8,162.8	23	7,456.3
167	TOTAL METROPOLITAN	7,335	2,178,395.7	92	34,045.9	129	104,538.6	262	127,298.4
168	TOTAL NON-METROPOLITAN	4,515	327,029.9	37	13,435.2	90	32,149.2	157	64,155.3
169	TOTAL COUNTIES	7,363	1,808,978.5	103	28,716.8	154	73,479.1	262	126,560.5
170	TOTAL CITIES	4,487	696,447.1	26	18,764.3	65	63,208.8	157	64,893.3
171	VIRGINIA	11,850	2,505,425.6	129	47,481.1	219	136,687.9	419	191,453.8

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[1] Onancock Town did not report. The balance of Accomack County reported 12 months.
[2] Did not report.
[3] Bowling Green Town did not report. The balance of Caroline County reported 12 months.
[4] Reported 11 months.
[5] Chase City Town did not report. The balance of Mecklenburg County reported 12 months.
[6] Dumfries Town reported 8 months. The balance of Prince William County reported 12 months.
[7] St. Paul Town reported 11 months. The balance of Wise County reported 12 months.

Parking Garages		Service Stations & Repair Garages		Office, Bank & Professional Buildings		Public Works & Utilities Buildings		Stores & Mercantile Buildings		Other Nonresidential Buildings		
Number	$000	Number	$000	Number	$000	Number	$000	Number	$000	Number	$000	Line
0	0.0	9	425.8	70	19,626.4	2	63.7	96	13,798.5	302	1,277.0	152
0	0.0	7	785.0	10	2,166.8	1	29.0	2	310.0	55	501.7	153
0	0.0	4	184.0	12	1,552.2	1	2,900.0	35	6,174.0	99	422.0	154
0	0.0	2	62.0	12	3,205.0	6	27,887.0	22	27,243.2	296	11,319.5	155
2	1,100.0	13	10,173.0	96	47,515.7	6	361.8	169	76,718.5	1,299	9,002.7	156
0	0.0	9	1,513.0	47	29,186.3	6	310.4	129	66,895.2	1,796	5,448.5	157
0	0.0	1	36.0	4	1,547.0	1	25.0	14	1,316.1	92	667.0	158
0	0.0	8	485.3	6	891.9	1	5.0	27	4,361.7	37	481.1	159
0	0.0	3	428.0	15	5,550.6	2	261.6	37	14,481.8	221	2,065.1	160
0	0.0	9	336.5	12	1,030.7	2	65.0	12	2,776.6	207	1,345.3	161
0	0.0	8	786.1	36	10,469.0	2	28.0	42	5,479.6	135	1,349.4	162
2	1,100.0	22	11,686.0	144	75,914.5	12	3,520.4	314	148,382.5	2,932	9,812.4	163
38	131,609.4	6	729.8	448	802,255.5	7	1,345.2	428	328,825.6	189	3,094.2	164
4	12,434.4	15	2,693.9	214	177,623.4	9	10,757.2	246	89,051.0	729	16,595.0	165
0	0.0	5	725.4	30	11,610.8	5	789.0	41	16,734.1	190	2,544.5	166
44	145,143.8	76	17,871.0	905	1,085,346.4	40	16,771.4	1,147	610,093.0	4,640	37,287.1	167
3	4,427.2	87	5,202.6	197	45,373.0	35	20,502.7	459	101,406.3	3,450	40,378.4	168
31	95,700.1	116	8,025.3	838	902,534.2	63	27,272.8	1,158	484,900.4	4,638	61,789.2	169
16	53,870.9	47	15,048.3	264	228,185.2	12	10,001.3	448	226,598.9	3,452	15,876.2	170
47	149,571.0	163	23,073.7	1,102	1,130,719.4	75	37,274.1	1,606	711,499.3	8,090	77,665.4	171

TABLE 5.
Residential Building Permits Issued in Virginia Localities, 1980–1988

	1988	1987	1986	1985	1984	1983	1982	1981	1980
COUNTIES									
Accomack	334	263	481	350	316	273	239	165	345
Albemarle	590	595	748	728	722	1,084	495	640	565
Alleghany	108	103	141	119	92	105	72	NA	127
Amelia	98	60	95	96	73	81	46	58	55
Amherst	131	129	308	301	296	246	176	241	260
Appomattox	153	158	152	165	147	142	131	116	136
Arlington	2,218	910	1,341	878	292	1,055	396	586	568
Augusta	474	448	701	571	644	495	541	372	435
Bath	20	25	75	39	45	41	51	42	39
Bedford	955	1,071	530	NA	297	427	172	260	442
Bland	81	73	77	90	71	60	69	80	41
Botetourt	259	257	99	180	171	127	64	114	209
Brunswick	258	222	184	153	168	148	175	217	170
Buchanan	34	39	257	280	303	261	334	412	397
Buckingham	220	42	191	140	140	164	181	123	121
Campbell	294	244	576	904	632	550	448	645	643
Caroline	243	213	221	198	186	191	203	183	285
Carroll	122	105	363	327	320	255	235	282	348
Charles City	41	40	63	40	10	28	38	21	68
Charlotte	47	61	137	127	134	31	21	24	35
Chesterfield	3,397	3,938	4,298	4,346	3,623	3,599	1,878	2,273	3,354
Clarke	127	126	117	60	50	57	34	45	38
Craig	46	34	76	83	51	NA	NA	NA	NA
Culpeper	862	453	438	256	146	171	64	117	182
Cumberland	60	30	74	43	32	30	26	26	43
Dickenson	51	27	55	203	204	252	237	237	301
Dinwiddie	253	139	227	182	158	193	140	159	136
Essex	95	37	95	67	63	102	60	49	75
Fairfax	11,138	13,247	11,170	11,150	13,108	11,786	5,118	5,737	6,788
Fauquier	851	356	966	836	616	547	294	268	370
Floyd	179	160	121	60	51	60	34	47	56
Fluvanna	300	252	250	171	133	137	71	76	104
Franklin	406	387	643	657	819	571	445	197	233
Frederick	758	761	592	693	487	357	189	216	341
Giles	151	154	148	111	142	177	160	131	158
Gloucester	317	448	909	911	927	888	420	394	406
Goochland	209	196	231	205	164	149	127	104	103
Grayson	259	189	215	188	202	154	146	175	289
Greene	167	143	148	135	130	112	107	118	150
Greensville	74	92	64	83	88	87	63	74	99

TABLE 5. (continued)
Residential Building Permits Issued in Virginia Localities, 1980–1988

	1988	1987	1986	1985	1984	1983	1982	1981	1980
COUNTIES (continued)									
Halifax	321	202	139	20	345	293	222	261	273
Hanover	1,275	1,115	1,471	1,079	744	524	322	261	460
Henrico	4,273	2,653	3,199	2,977	3,720	2,827	969	1,471	1,931
Henry	216	239	762	576	671	565	388	398	529
Highland	28	16	19	34	33	57	73	31	32
Isle of Wight	572	302	501	NA	NA	402	250	204	277
James City	1,000	1,090	1,347	929	706	718	519	391	303
King and Queen	32	NA	82	80	97	79	60	55	64
King George	218	253	283	249	199	102	148	127	113
King William	130	118	130	75	78	74	46	41	88
Lancaster	198	181	141	150	246	204	101	89	129
Lee	73	81	259	309	327	315	254	168	366
Loudoun	2,737	2,089	2,218	1,884	1,373	1,175	711	390	343
Louisa	315	268	381	354	206	228	219	220	214
Lunenburg	76	18	78	91	NA	NA	98	72	96
Madison	129	106	94	69	73	71	52	52	53
Mathews	114	117	141	96	112	90	59	75	80
Mecklenburg	117	118	398	355	307	301	263	362	260
Middlesex	172	149	149	NA	132	153	105	97	102
Montgomery	748	884	578	437	359	382	470	637	631
Nelson	189	174	227	257	227	250	216	172	228
New Kent	185	209	213	135	152	126	70	74	98
Northampton	104	54	127	92	170	105	62	53	62
Northumberland	216	218	203	158	NA	138	120	133	143
Nottoway	54	39	102	86	80	76	111	97	155
Orange	300	313	252	271	223	214	122	137	164
Page	193	267	221	174	138	223	112	145	156
Patrick	227	252	235	213	291	204	158	230	212
Pittsylvania	301	325	907	771	833	884	693	666	800
Powhatan	237	197	228	147	131	110	63	76	102
Prince Edward	142	54	135	139	125	144	90	161	94
Prince George	180	192	216	203	215	198	146	132	260
Prince William	4,328	5,085	5,305	2,826	2,967	2,569	1,564	1,472	1,435
Pulaski	149	124	326	360	292	242	292	269	393
Rappahannock	81	83	68	54	29	56	55	37	53
Richmond	55	89	57	52	50	61	33	46	51
Roanoke	482	618	786	786	712	645	294	423	434
Rockbridge	150	94	199	179	237	169	125	63	83
Rockingham	451	575	701	611	471	417	456	478	620
Russell	56	69	374	339	339	349	356	321	443

TABLE 5. (continued)
Residential Building Permits Issued in Virginia Localities, 1980–1988

	1988	1987	1986	1985	1984	1983	1982	1981	1980
COUNTIES (continued)									
Scott	104	76	228	313	260	263	223	235	293
Shenandoah	557	519	412	326	261	322	189	470	266
Smyth	95	98	286	273	268	233	169	392	292
Southampton	218	112	169	205	123	95	87	151	95
Spotsylvania	1,529	1,838	1,487	1,265	861	639	348	338	410
Stafford	2,110	1,133	951	832	164	189	536	358	479
Surry	80	104	118	106	117	113	76	70	116
Sussex	144	108	91	99	94	119	47	122	79
Tazewell	128	105	514	528	568	607	579	585	659
Warren	422	327	280	192	171	221	65	110	164
Washington	296	287	600	540	481	408	361	378	531
Westmoreland	182	209	143	76	122	171	147	40	52
Wise	260	97	472	513	519	398	237	564	424
Wythe	329	339	311	448	274	273	215	286	287
York	696	611	1,050	852	340	274	228	204	255
CITIES									
Alexandria	499	1,495	178	53	368	333	231	311	530
Bedford	25	31	25	62	22	27	13	23	26
Bristol	39	50	78	60	212	42	18	51	229
Buena Vista	17	1	11	51	3	4	63	1	72
Charlottesville	151	118	89	114	162	172	55	68	231
Chesapeake	2,083	2,860	3,026	2,954	2,351	1,982	736	421	473
Clifton Forge	3	2	1	NA	NA	1	2	NA	NA
Colonial Heights	66	80	96	66	93	58	70	49	96
Covington	2	8	3	20	17	8	1	1	5
Danville	50	40	46	85	87	66	22	213	129
Emporia	16	7	6	51	5	3	4	12	72
Fairfax	67	153	45	69	44	16	19	7	13
Falls Church	16	3	12	10	1	3	2	8	28
Franklin	34	59	53	58	17	32	8	80	13
Fredericksburg	122	28	315	165	121	39	9	28	3
Galax	59	18	62	41	28	67	122	51	59
Hampton	1,435	921	1,982	2,068	1,089	844	371	295	391
Harrisonburg	537	422	528	319	286	197	71	105	340
Hopewell	79	51	258	128	75	33	122	31	126
Lexington	17	NA	4	13	1	10	3	5	8
Lynchburg	195	283	247	366	292	290	230	131	489
Manassas	718	747	1,439	521	137	62	178	83	214
Manassas Park	NA	55	60	98	57	16	37	NA	9
Martinsville	54	52	52	30	28	26	7	74	65
Newport News	1,555	1,677	2,661	2,908	3,210	1,524	783	456	477

TABLE 5. (continued)
Residential Building Permits Issued in Virginia Localities, 1980–1988

	1988	1987	1986	1985	1984	1983	1982	1981	1980
CITIES (continued)									
Norfolk	1,082	1,786	1,644	1,633	1,413	1,147	899	587	683
Norton	18	NA	28	35	74	22	39	37	49
Petersburg	39	152	229	38	90	33	88	135	199
Poquoson	63	57	105	300	125	147	91	76	87
Portsmouth	247	623	973	456	503	410	279	241	203
Radford	207	190	176	128	294	89	89	84	12
Richmond	283	697	610	355	554	348	324	389	1,002
Roanoke	219	437	406	290	139	152	136	53	506
Salem	82	90	127	93	152	131	42	54	87
South Boston	13	13	8	62	22	27	83	6	86
Staunton	134	82	79	136	45	53	21	28	130
Suffolk	474	548	604	434	696	494	293	79	300
Virginia Beach	4,538	3,461	9,339	8,292	7,661	8,635	5,023	3,243	3,002
Waynesboro	83	64	87	54	55	136	37	54	28
Williamsburg	41	66	84	109	94	66	82	9	19
Winchester	281	190	327	209	88	130	34	79	83
PLANNING DISTRICTS									
LENOWISCO	455	254	987	1,170	1,180	998	753	1,004	1,132
Cumberland Plateau	269	240	1,200	1,350	1,414	1,469	1,506	1,555	1,800
Mount Rogers	1,280	1,159	1,992	1,967	1,856	1,492	1,335	1,695	2,076
New River Valley	1,434	1,512	1,349	1,096	1,138	950	1,045	1,168	1,250
Fifth	1,201	1,549	1,639	1,571	1,334	1,169	611	645	1,368
Central Shenandoah	1,911	1,727	2,404	2,007	1,820	1,579	1,441	1,179	1,787
Lord Fairfax	2,338	2,190	1,949	1,654	1,195	1,310	623	1,065	1,048
Northern Virginia	21,721	23,784	21,768	17,489	18,347	17,015	8,256	8,594	9,928
Rappahannock-Rapidan	2,223	1,316	1,818	1,486	1,087	1,059	587	611	822
Thomas Jefferson	1,712	1,550	1,843	1,759	1,580	1,983	1,163	1,294	1,492
Central Virginia	1,753	1,916	1,838	1,798	1,686	1,682	1,170	1,416	1,996
West Piedmont	1,254	1,295	2,645	2,332	2,729	2,316	1,713	1,778	1,968
Southside	709	555	729	590	842	769	743	846	789
Piedmont	697	304	812	722	584	526	573	561	599
Richmond Regional	9,900	9,045	10,313	9,284	9,098	7,711	3,791	4,669	7,118
RADCO	4,222	3,465	3,257	2,709	1,531	1,160	1,244	1,034	1,290
Northern Neck	651	697	544	436	418	574	401	308	375
Middle Peninsula	860	869	1,506	1,229	1,409	1,386	750	711	815
Crater	931	925	1,305	956	935	837	756	784	1,183
Southeastern Virginia	9,248	9.751	16,309	14,032	12,764	13,197	7,575	5,006	5,046
Peninsula	4,790	4,422	7,229	7,166	5,564	3,573	2,074	1,431	1,532
Accomack-Northampton	438	317	608	442	486	378	301	218	407

TABLE 5. (continued)
Residential Building Permits Issued in Virginia Localities, 1980–1988

	1988	1987	1986	1985	1984	1983	1982	1981	1980
METROPOLITAN STATISTICAL AREAS									
Bristol (Va. portion)	439	413	906	913	953	713	602	664	1,053
Charlottesville	1,208	1,108	1,235	1,148	1,147	1,505	728	902	1,050
Danville	351	365	953	856	920	950	715	879	929
Lynchburg	620	656	1,131	1,571	1,220	1,086	854	1,017	1,392
Norfolk	13,531	14,148	23,724	21,846	19,115	17,129	9,724	6,396	6,599
Northern Virginia	23,831	24,917	22,719	18,321	18,511	17,204	8,792	8,952	10,407
Richmond	10,517	9,659	11,339	9,901	9,729	8,226	4,357	5,175	7,935
Roanoke	1,042	1,402	1,418	1,349	1,174	1,055	536	644	1,236
TOTAL METROPOLITAN	51,539	52,668	63,425	55,905	52,769	47,868	26,308	24,629	30,601
TOTAL NON-METROPOLITAN	18,458	16,174	20,619	17,340	16,228	15,265	12,103	12,943	15,220
TOTAL COUNTIES	54,354	51,225	57,941	50,311	48,286	45,258	27,674	29,914	35,247
TOTAL CITIES	15,643	17,617	26,103	22,934	20,711	17,875	10,737	7,658	10,574
VIRGINIA	69,997	68,842	84,044	73,245	68,997	63,133	38,411	37,572	45,821

NA = Data not available.

TABLE 6.
Nonresidential Building Permits Issued in Virginia Localities, 1980–1988

	1988	1987	1986	1985	1984	1983	1982	1981	1980
COUNTIES									
Accomack	87	71	54	50	49	43	58	77	46
Albemarle	184	188	192	200	229	203	180	166	162
Alleghany	37	NA	41	25	37	34	33	NA	32
Amelia	11	5	4	6	23	18	30	15	39
Amherst	45	43	47	50	45	31	31	63	14
Appomattox	21	11	0	34	12	28	22	19	17
Arlington	17	16	23	18	27	4	8	7	8
Augusta	299	247	266	218	196	225	228	240	227
Bath	15	26	27	9	3	39	56	NA	50
Bedford	NA	NA	0	NA	46	72	81	132	175
Bland	4	41	3	2	7	1	NA	2	1
Botetourt	75	43	0	33	40	53	60	45	66
Brunswick	56	98	43	67	51	42	27	31	46
Buchanan	23	25	32	28	42	44	46	31	37
Buckingham	50	26	0	4	35	18	31	13	26
Campbell	122	109	92	99	97	125	92	46	64
Caroline	4	2	19	19	26	24	42	23	55
Carroll	68	105	115	100	52	62	45	68	82
Charles City	33	39	47	37	19	22	NA	10	NA
Charlotte	21	21	19	15	16	17	17	20	39
Chesterfield	314	193	195	144	7	98	84	92	92
Clarke	30	44	24	23	19	5	4	2	8
Craig	NA	NA	1	13	4	NA	NA	NA	NA
Culpeper	42	25	95	105	106	105	69	104	99
Cumberland	17	11	10	11	24	26	27	16	21
Dickenson	6	27	4	NA	4	28	22	16	19
Dinwiddie	155	101	53	26	57	25	28	9	5
Essex	47	24	43	36	37	35	40	32	33
Fairfax	775	609	815	601	584	305	250	205	641
Fauquier	225	29	185	100	154	122	150	121	119
Floyd	16	32	6	21	7	6	8	11	21
Fluvanna	25	6	5	20	25	20	31	23	16
Franklin	393	320	326	279	198	133	172	136	136
Frederick	150	213	119	146	132	133	107	110	138
Giles	46	27	26	8	16	17	12	5	4
Gloucester	41	19	22	19	41	24	34	20	28
Goochland	61	87	60	71	50	39	49	53	41
Grayson	NA	28	2	10	47	44	60	28	36
Greene	54	47	49	54	57	29	33	48	59
Greensville	0	3	8	3	6	9	NA	3	15

TABLE 6. (continued)
Nonresidential Building Permits Issued in Virginia Localities, 1980–1988

	1988	1987	1986	1985	1984	1983	1982	1981	1980
COUNTIES (continued)									
Halifax	0	0	55	NA	8	5	NA	5	5
Hanover	109	154	77	114	110	88	81	79	89
Henrico	351	367	309	330	314	332	300	302	300
Henry	82	70	90	85	75	64	56	59	73
Highland	38	32	2	46	46	59	67	48	73
Isle of Wight	30	NA	0	NA	NA	65	89	44	57
James City	14	18	19	36	36	168	100	109	119
King and Queen	11	NA	25	24	24	40	22	3	8
King George	8	2	1	1	11	17	19	43	26
King William	5	3	0	1	1	NA	NA	1	NA
Lancaster	75	88	84	43	57	58	74	71	62
Lee	27	19	23	15	16	11	13	13	19
Loudoun	49	NA	0	36	55	92	84	87	86
Louisa	22	9	13	15	12	7	19	46	33
Lunenburg	6	4	7	NA	NA	NA	21	35	27
Madison	42	57	28	29	28	18	26	20	23
Mathews	3	3	4	1	74	53	37	34	31
Mecklenburg	126	79	80	49	49	61	71	30	54
Middlesex	55	69	88	NA	120	81	48	69	66
Montgomery	105	83	76	74	49	43	54	86	59
Nelson	72	61	52	31	41	52	71	41	51
New Kent	33	34	44	46	31	31	30	6	12
Northampton	30	15	5	78	10	15	4	11	7
Northumberland	4	3	3	2	NA	51	17	16	16
Nottoway	20	24	12	12	9	18	1	5	9
Orange	51	34	37	16	18	19	18	18	18
Page	186	180	221	146	133	131	136	147	126
Patrick	33	43	9	10	15	18	7	11	17
Pittsylvania	171	235	213	228	249	193	168	163	140
Powhatan	11	9	5	16	10	3	1	10	13
Prince Edward	25	15	15	15	22	18	10	6	9
Prince George	64	26	60	99	97	66	8	72	56
Prince William	182	160	194	194	120	84	78	46	94
Pulaski	19	26	15	17	15	12	44	12	10
Rappahannock	0	0	6	2	31	41	28	41	30
Richmond	NA	NA	0	NA	2	2	4	8	1
Roanoke	108	136	135	133	130	122	49	129	115
Rockbridge	66	50	60	46	52	55	49	59	55
Rockingham	439	497	564	456	384	410	482	500	902
Russell	1	4	3	3	6	7	5	3	7

TABLE 6. (continued)
Nonresidential Building Permits Issued in Virginia Localities, 1980–1988

	1988	1987	1986	1985	1984	1983	1982	1981	1980
COUNTIES (continued)									
Scott	10	6	6	11	11	10	8	11	5
Shenandoah	222	155	165	148	88	122	114	135	125
Smyth	24	29	27	18	13	10	7	17	20
Southampton	130	185	15	140	112	78	106	82	79
Spotsylvania	391	283	311	256	256	140	65	106	107
Stafford	69	64	14	38	40	17	24	81	77
Surry	5	11	9	3	5	NA	5	1	4
Sussex	9	10	18	5	5	16	8	43	37
Tazewell	35	118	111	128	72	82	90	62	62
Warren	NA	106	91	83	32	41	9	32	22
Washington	61	66	58	52	46	64	32	45	56
Westmoreland	0	0	1	NA	NA	11	NA	NA	NA
Wise	38	37	29	31	46	56	61	45	29
Wythe	67	57	39	45	70	51	42	51	54
York	60	124	98	54	83	75	85	91	90
CITIES									
Alexandria	32	23	23	7	13	49	54	42	31
Bedford	1	3	46	8	7	6	8	1	4
Bristol	25	33	28	52	41	20	29	27	38
Buena Vista	4	NA	27	2	2	33	5	2	1
Charlottesville	30	41	49	41	39	51	48	31	35
Chesapeake	94	113	136	102	101	99	304	330	218
Clifton Forge	0	3	7	NA	NA	2	1	NA	NA
Colonial Heights	71	57	56	42	58	50	43	6	12
Covington	11	3	6	6	7	3	NA	5	21
Danville	88	68	82	53	59	59	53	10	13
Emporia	24	13	14	18	14	20	10	25	19
Fairfax	19	43	17	45	15	27	3	8	27
Falls Church	1	5	6	10	15	1	4	2	5
Franklin	37	11	31	12	10	3	12	5	6
Fredericksburg	39	29	37	27	27	18	10	12	4
Galax	5	4	18	6	7	16	5	5	7
Hampton	1,225	880	1,107	996	866	756	648	723	675
Harrisonburg	72	68	62	55	57	41	25	41	35
Hopewell	23	9	16	12	15	9	9	19	23
Lexington	1	NA	1	1	NA	NA	4	8	8
Lynchburg	83	100	88	75	64	51	53	53	119
Manassas	53	47	42	27	13	4	34	20	11
Manassas Park	34	64	62	26	3	3	3	3	NA
Martinsville	9	7	6	6	11	4	4	6	7
Newport News	731	682	393	373	291	263	181	190	134

TABLE 6. (continued)
Nonresidential Building Permits Issued in Virginia Localities, 1980–1988

	1988	1987	1986	1985	1984	1983	1982	1981	1980
CITIES (continued)									
Norfolk	264	198	200	218	252	383	446	171	237
Norton	4	3	3	3	NA	1	NA	5	6
Petersburg	11	27	32	31	45	33	15	34	37
Poquoson	4	8	6	2	7	1	29	19	31
Portsmouth	205	181	222	266	290	128	188	190	210
Radford	1	7	5	NA	4	2	9	8	2
Richmond	83	76	102	139	135	100	159	180	158
Roanoke	91	134	135	157	101	58	69	86	103
Salem	39	53	48	54	56	35	40	36	37
South Boston	5	3	2	3	4	2	2	4	NA
Staunton	11	27	32	22	35	34	24	7	11
Suffolk	212	261	62	206	296	201	149	201	248
Virginia Beach	713	688	691	656	775	636	512	357	357
Waynesboro	65	41	37	39	58	50	26	29	31
Williamsburg	11	10	13	15	7	7	16	10	14
Winchester	56	59	50	71	50	57	43	13	12
PLANNING DISTRICTS									
LENOWISCO	79	65	61	60	73	78	82	74	59
Cumberland Plateau	65	174	150	159	124	161	163	112	125
Mount Rogers	254	363	290	285	283	268	220	243	294
New River Valley	187	175	128	120	91	80	127	122	96
Fifth	361	372	373	421	375	307	252	301	374
Central Shenandoah	1,010	988	1,078	894	833	946	966	934	1,393
Lord Fairfax	644	757	670	617	454	489	413	439	431
Northern Virginia	1,162	967	1,182	964	845	569	518	420	903
Rappahannock-Rapidan	360	145	351	252	337	305	291	304	289
Thomas Jefferson	387	352	360	361	403	362	382	355	356
Central Virginia	272	266	273	266	271	313	287	314	393
West Piedmont	776	743	726	661	607	471	460	385	386
Southside	187	180	180	119	112	110	100	70	105
Piedmont	150	106	67	63	129	115	137	110	170
Richmond Regional	995	959	839	897	676	713	704	732	705
RADCO	511	380	382	341	360	216	160	265	269
Northern Neck	79	91	88	45	59	122	95	95	79
Middle Peninsula	162	118	182	81	297	233	181	159	166
Crater	362	257	266	239	302	228	126	212	208
Southeastern Virginia	1,685	1,637	1,357	1,600	1,836	1,593	1,806	1,380	1,412
Peninsula	2,045	1,722	1,636	1,476	1,290	1,270	1,059	1,142	1,063
Accomack-Northampton	117	86	59	128	59	58	62	88	53

TABLE 6. (continued)
Nonresidential Building Permits Issued in Virginia Localities, 1980–1988

	1988	1987	1986	1985	1984	1983	1982	1981	1980
METROPOLITAN STATISTICAL AREAS									
Bristol (Va. portion)	96	105	92	115	98	94	69	83	99
Charlottesville	293	282	295	315	350	303	292	268	272
Danville	259	303	295	281	308	252	221	173	153
Lynchburg	250	252	227	224	206	207	176	162	197
Norfolk	3,574	3,182	2,969	2,943	3,045	2,741	2,692	2,411	2,361
Northern Virginia	1,231	1,031	1,196	1,002	885	586	542	501	980
Richmond	1,319	1,179	1,056	1,107	948	896	807	872	838
Roanoke	313	366	318	377	327	268	218	296	321
TOTAL METROPOLITAN	7,335	6,700	6,448	6,364	6,167	5,347	5,017	4,766	5,221
TOTAL NON-METROPOLITAN	4,515	4,203	4,250	3,685	3,649	3,660	3,574	3,490	4,108
TOTAL COUNTIES	7,363	6,821	6,698	6,165	5,966	5,691	5,314	5,332	6,382
TOTAL CITIES	4,487	4,082	4,000	3,884	3,850	3,316	3,277	2,924	2,947
VIRGINIA	11,850	10,903	10,698	10,049	9,816	9,007	8,591	8,256	9,329

NOTE: NA = Data not available.

TABLE 7.
Annual Change in Residential Building Permits Issued, 1980–1988

	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
COUNTIES								
Accomack	27.0 %	–45.3 %	37.4 %	10.8 %	15.8 %	14.2 %	44.8 %	–52.2% %
Albemarle	–0.8	–20.5	2.7	0.8	–33.4	119.0	–22.7	13.3
Alleghany	4.9	–27.0	18.5	29.3	–12.4	45.8	**	**
Amelia	63.3	–36.8	–1.0	31.5	–9.9	76.1	–20.7	5.5
Amherst	1.6	–58.1	2.3	1.7	20.3	39.8	–27.0	–7.3
Appomattox	–3.2	3.9	–7.9	12.2	3.5	8.4	12.9	–14.7
Arlington	143.7	–32.1	52.7	200.7	–72.3	166.4	–32.4	3.2
Augusta	5.8	–36.1	22.8	–11.3	30.1	–8.5	45.4	–14.5
Bath	–20.0	–66.7	92.3	–13.3	9.8	–19.6	21.4	7.7
Bedford	–10.8	102.1	**	**	–30.4	148.3	–33.8	–41.2
Bland	11.0	–5.2	–14.4	26.8	18.3	–13.0	–13.8	95.1
Botetourt	0.8	159.6	–45.0	5.3	34.6	98.4	–43.9	–45.5
Brunswick	16.2	20.7	20.3	–8.9	13.5	–15.4	–19.4	27.6
Buchanan	–12.8	–84.8	–8.2	–7.6	16.1	–21.9	–18.9	3.8
Buckingham	423.8	–78.0	36.4	0.0	–14.6	–9.4	47.2	1.7
Campbell	20.5	–57.6	–36.3	43.0	14.9	22.8	–30.5	0.3
Caroline	14.1	–3.6	11.6	6.5	–2.6	–5.9	10.9	–35.8
Carroll	16.2	–71.1	11.0	2.2	25.5	8.5	–16.7	–19.0
Charles City	2.5	–36.5	57.5	300.0	–64.3	–26.3	81.0	–69.1
Charlotte	–23.0	–55.5	7.9	–5.2	332.3	47.6	–12.5	–31.4
Chesterfield	–13.7	–8.4	–1.1	20.0	0.7	91.6	–17.4	–32.2
Clarke	0.8	7.7	95.0	20.0	–12.3	67.6	–24.4	18.4
Craig	35.3	–55.3	–8.4	62.7	**	**	**	**
Culpeper	90.3	3.4	71.1	75.3	–14.6	167.2	–45.3	–35.7
Cumberland	100.0	–59.5	72.1	34.4	6.7	15.4	0.0	–39.5
Dickenson	88.9	–50.9	–72.9	–0.5	–19.0	6.3	0.0	–21.3
Dinwiddie	82.0	–38.8	24.7	15.2	–18.1	37.9	–11.9	16.9
Essex	156.8	–61.1	41.8	6.3	–38.2	70.0	22.4	–34.7
Fairfax	–15.9	18.6	0.2	–14.9	11.2	130.3	–10.8	–15.5
Fauquier	139.0	–63.1	15.6	35.7	12.6	86.1	9.7	–27.6
Floyd	11.9	32.2	101.7	17.6	–15.0	76.5	–27.7	–16.1
Fluvanna	19.0	0.8	46.2	28.6	–2.9	93.0	–6.6	–26.9
Franklin	4.9	–39.8	–2.1	–19.8	43.4	28.3	125.9	–15.5
Frederick	–0.4	28.5	–14.6	42.3	36.4	88.9	–12.5	–36.7
Giles	–1.9	4.1	33.3	–21.8	–19.8	10.6	22.1	–17.1
Gloucester	–29.2	–50.7	–0.2	–1.7	4.4	111.4	6.6	–3.0
Goochland	6.6	–15.2	12.7	25.0	10.1	17.3	22.1	1.0
Grayson	37.0	–12.1	14.4	–6.9	31.2	5.5	–16.6	–39.4
Greene	16.8	–3.4	9.6	3.8	16.1	4.7	–9.3	–21.3
Greensville	–19.6	43.8	–22.9	–5.7	1.1	38.1	–14.9	–25.3

TABLE 7. (continued)
Annual Change in Residential Building Permits Issued, 1980–1988

	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
COUNTIES (continued)								
Halifax	58.9 %	45.3 %	595.0 %	–94.2 %	17.7 %	32.0 %	–14.9 %	–4.4 %
Hanover	14.3	–24.2	36.3	45.0	42.0	62.7	23.4	–43.3
Henrico	61.1	–17.1	7.5	–20.0	31.6	191.7	–34.1	–23.8
Henry	–9.6	–68.6	32.3	–14.2	18.8	45.6	–2.5	–24.8
Highland	75.0	–15.8	–44.1	3.0	–42.1	–21.9	135.5	–3.1
Isle of Wight	89.4	–39.7	**	**	**	60.8	22.5	–26.4
James City	–8.3	–19.1	45.0	31.6	–1.7	38.3	32.7	29.0
King and Queen	**	**	2.5	–17.5	22.8	31.7	9.1	–14.1
King George	–13.8	–10.6	13.7	25.1	95.1	-31.1	16.5	12.4
King William	10.2	–9.2	73.3	–3.8	5.4	60.9	12.2	–53.4
Lancaster	9.4	28.4	–6.0	–39.0	20.6	102.0	13.5	–31.0
Lee	–9.9	–68.7	–16.2	–5.5	3.8	24.0	51.2	–54.1
Loudoun	31.0	–5.8	17.7	37.2	16.9	65.3	82.3	13.7
Louisa	17.5	–29.7	7.6	71.8	–9.6	4.1	–0.5	2.8
Lunenburg	322.2	–76.9	–14.3	**	**	**	36.1	–25.0
Madison	21.7	12.8	36.2	–5.5	2.8	36.5	0.0	–1.9
Mathews	–2.6	–17.0	46.9	–14.3	24.4	52.5	–21.3	–6.3
Mecklenburg	–0.8	–70.4	12.1	15.6	2.0	14.4	–27.3	39.2
Middlesex	15.4	0.0	**	**	–13.7	45.7	8.2	–4.9
Montgomery	–15.4	52.9	32.3	21.7	–6.0	–18.7	–26.2	1.0
Nelson	8.6	–23.3	–11.7	13.2	–9.2	15.7	25.6	–24.6
New Kent	–11.5	–1.9	57.8	–11.2	20.6	80.0	–5.4	–24.5
Northampton	92.6	–57.5	38.0	–45.9	61.9	69.4	17.0	–14.5
Northumberland	–0.9	7.4	28.5	**	**	15.0	–9.8	–7.0
Nottoway	38.5	–61.8	18.6	7.5	5.3	–31.5	14.4	–37.4
Orange	–4.2	24.2	–7.0	21.5	4.2	75.4	–10.9	–16.5
Page	–27.7	20.8	27.0	26.1	–38.1	99.1	–22.8	–7.1
Patrick	–9.9	7.2	10.3	–26.8	42.6	29.1	–31.3	8.5
Pittsylvania	–7.4	–64.2	17.6	–7.4	–5.8	27.6	4.1	–16.8
Powhatan	20.3	–13.6	55.1	12.2	19.1	74.6	–17.1	–25.5
Prince Edward	163.0	–60.0	–2.9	11.2	–13.2	60.0	–44.1	71.3
Prince George	–6.3	–11.1	6.4	–5.6	8.6	35.6	10.6	–49.2
Prince William	–14.9	–4.1	87.7	–4.8	15.5	64.3	6.3	2.6
Pulaski	20.2	–62.0	–9.4	23.3	20.7	–17.1	8.6	–31.6
Rappahannock	–8.0	29.4	25.9	86.2	–48.2	1.8	48.6	–30.2
Richmond	–38.2	56.1	9.6	4.0	–18.0	84.8	–28.3	–9.8
Roanoke	–22.0	–21.4	0.0	10.4	10.4	119.4	–30.5	–2.5
Rockbridge	59.6	–52.8	11.2	–24.5	40.2	35.2	98.4	–24.1
Rockingham	–21.6	–18.0	14.7	29.7	12.9	–8.6	–4.6	–22.9
Russell	–18.8	–81.6	10.3	0.0	–2.9	–2.0	10.9	–27.5

TABLE 7. (continued)
Annual Change in Residential Building Permits Issued, 1980–1988

	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
COUNTIES (continued)								
Scott	36.8 %	–66.7 %	–27.2 %	20.4 %	–1.1 %	17.9 %	–5.1 %	–19.8 %
Shenandoah	7.3	26.0	26.4	24.9	–18.9	70.4	–59.8	76.7
Smyth	–3.1	–65.7	4.8	1.9	15.0	37.9	–56.9	34.2
Southampton	94.6	–33.7	–17.6	66.7	29.5	9.2	–42.4	58.9
Spotsylvania	–16.8	23.6	17.5	46.9	34.7	83.6	3.0	–17.6
Stafford	86.2	19.1	14.3	407.3	–13.2	–64.7	49.7	–25.3
Surry	–23.1	–11.9	11.3	–9.4	3.5	48.7	8.6	–39.7
Sussex	33.3	18.7	–8.1	5.3	–21.0	153.2	–61.5	54.4
Tazewell	21.9	–79.6	–2.7	–7.0	–6.4	4.8	–1.0	–11.2
Warren	29.1	16.8	45.8	12.3	–22.6	240.0	–40.9	–32.9
Washington	3.1	–52.2	11.1	12.3	17.9	13.0	–4.5	–28.8
Westmoreland	–12.9	46.2	88.2	–37.7	–28.7	16.3	267.5	–23.1
Wise	168.0	–79.4	–8.0	–1.2	30.4	67.9	–58.0	33.0
Wythe	–2.9	9.0	–30.6	63.5	0.4	27.0	–24.8	–0.3
York	13.9	–41.8	23.2	150.6	24.1	20.2	11.8	–20.0
CITIES								
Alexandria	–66.6	739.9	235.8	–85.6	10.5	44.2	–25.7	–41.3
Bedford	–19.4	24.0	–59.7	181.8	–18.5	107.7	–43.5	–11.5
Bristol	–22.0	–35.9	30.0	–71.7	404.8	133.3	–64.7	–77.7
Buena Vista	1,600.0	–90.9	–78.4	1,600.0	–25.0	–93.7	6,200.0	–98.6
Charlottesville	28.0	32.6	–21.9	–29.6	–5.8	212.7	–19.1	–70.6
Chesapeake	–27.2	–5.5	2.4	25.6	18.6	169.3	74.8	–11.0
Clifton Forge	50.0	100.0	**	**	**	–50.0	**	**
Colonial Heights	–17.5	–16.7	45.5	–29.0	60.3	–17.1	42.9	–49.0
Covington	–75.0	166.7	–85.0	17.6	112.5	700.0	0.0	–80.0
Danville	25.0	–13.0	–45.9	–2.3	31.8	200.0	–89.7	65.1
Emporia	128.6	16.7	–88.2	920.0	66.7	–25.0	–66.7	–83.3
Fairfax	–56.2	240.0	–34.8	56.8	175.0	–15.8	171.4	–46.2
Falls Church	433.3	–75.0	20.0	900.0	–66.7	50.0	–75.0	–71.4
Franklin	–42.4	11.3	–8.6	241.2	–46.9	300.0	–90.0	515.4
Fredericksburg	335.7	–91.1	90.9	36.4	210.3	333.3	–67.9	833.3
Galax	227.8	–71.0	51.2	46.4	–58.2	–45.1	139.2	–13.6
Hampton	55.8	–53.5	–4.2	89.9	29.0	127.5	25.8	–24.6
Harrisonburg	27.3	–20.1	65.5	11.5	45.2	177.5	–32.4	–69.1
Hopewell	54.9	–80.2	101.6	70.7	127.3	–73.0	293.5	–75.4
Lexington	**	**	–69.2	1,200.0	–90.0	233.3	–40.0	–37.5
Lynchburg	–31.1	14.6	–32.5	25.3	0.7	26.1	75.6	–73.2
Manassas	–3.9	–48.1	176.2	280.3	121.0	–65.2	114.5	–61.2
Manassas Park	**	–8.3	–38.8	71.9	256.3	–56.8	**	**
Martinsville	3.8	0.0	73.3	7.1	7.7	271.4	–90.5	13.8
Newport News	–7.3	–37.0	–8.5	–9.4	110.6	94.6	71.7	–4.4

TABLE 7. (continued)
Annual Change in Residential Building Permits Issued, 1980–1988

	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
CITIES (continued)								
Norfolk	–39.4 %	8.6 %	0.7 %	15.6 %	23.2 %	27.6 %	53.2 %	–14.1 %
Norton	**	**	–20.0	–52.7	236.4	–43.6	5.4	–24.5
Petersburg	–74.3	–33.6	502.6	–57.8	172.7	–62.5	–34.8	–32.2
Poquoson	10.5	–45.7	–65.0	140.0	–15.0	61.5	19.7	–12.6
Portsmouth	–60.4	–36.0	113.4	–9.3	22.7	47.0	15.8	18.7
Radford	8.9	8.0	37.5	-56.5	230.3	0.0	6.0	600.0
Richmond	–59.4	14.3	71.8	–35.9	59.2	7.4	–16.7	–61.2
Roanoke	–49.9	7.6	40.0	108.6	–8.6	11.8	156.6	–89.5
Salem	–8.9	–29.1	36.6	–38.8	16.0	211.9	–22.2	–37.9
South Boston	0.0	62.5	–87.1	181.8	–18.5	–67.5	1,283.3	–93.0
Staunton	63.4	3.8	–41.9	202.2	–15.1	152.4	–25.0	–78.5
Suffolk	–13.5	–9.3	39.2	–37.6	40.9	68.6	270.9	–73.7
Virginia Beach	31.1	–62.9	12.6	8.2	–11.3	71.9	54.9	8.0
Waynesboro	29.7	–26.4	61.1	–1.8	–59.6	267.6	–31.5	92.9
Williamsburg	–37.9	–21.4	–22.9	16.0	42.4	–19.5	811.1	–52.6
Winchester	47.9	–41.9	56.5	137.5	–32.3	282.4	–57.0	–4.8
PLANNING DISTRICTS								
LENOWISCO	79.1	–74.3	–15.6	–0.8	18.2	32.5	–25.0	–11.3
Cumberland Plateau	12.1	–80.0	–11.1	–4.5	–3.7	–2.5	–3.2	–13.6
Mount Rogers	10.4	–41.8	1.3	6.0	24.4	11.8	–21.2	–18.4
New River Valley	–5.2	12.1	23.1	–3.7	19.8	–9.1	–10.5	–6.6
Fifth	–22.5	–5.5	4.3	17.8	14.1	91.3	–5.3	–52.9
Central Shenandoah	10.7	–28.2	19.8	10.3	15.3	9.6	22.2	–34.0
Lord Fairfax	6.8	12.4	17.8	38.4	–8.8	110.3	–41.5	1.6
Northern Virginia	–8.7	9.3	24.5	–4.7	7.8	106.1	–3.9	–13.4
Rappahannock–Rapidan	68.9	–27.6	22.3	36.7	2.6	80.4	–3.9	–25.7
Thomas Jefferson	10.5	–15.9	4.8	11.3	–20.3	70.5	–10.1	–13.3
Central Virginia	–8.5	4.2	2.2	6.6	0.2	43.8	–17.4	–29.1
West Piedmont	–3.2	–51.0	13.4	–14.5	17.8	35.2	–3.7	–9.7
Southside	27.7	–23.9	23.6	–29.9	9.5	3.5	–12.2	7.2
Piedmont	129.3	–62.6	12.5	23.6	11.0	–8.2	2.1	-6.3
Richmond Regional	9.5	–12.3	11.1	2.0	18.0	103.4	–18.8	–34.4
RADCO	21.8	6.4	20.2	76.9	32.0	–6.8	20.3	–19.8
Northern Neck	–6.6	28.1	24.8	4.3	–27.2	43.1	30.2	–17.9
Middle Peninsula	–1.0	–42.3	22.5	–12.8	1.7	84.8	5.5	–12.8
Crater	0.6	–29.1	36.5	2.2	11.7	10.7	–3.6	–33.7
Southeastern Virginia	–5.2	–40.2	16.2	9.9	–3.3	74.2	51.3	–0.8
Peninsula	8.3	–38.8	0.9	28.8	55.7	72.3	44.9	–6.6
Accomack–Northampton	38.2	–47.9	37.6	–9.1	28.6	25.6	38.1	–46.4

TABLE 7. (continued)
Annual Change in Residential Building Permits Issued, 1980–1988

	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
METROPOLITAN STATISTICAL AREAS								
Bristol (Va. portion)	6.3 %	–54.4 %	–0.8 %	–4.2 %	33.7 %	18.4 %	–9.3 %	–36.9 %
Charlottesville	9.0	–10.3	7.6	0.1	–23.8	106.7	–19.3	–14.1
Danville	–3.8	–61.7	11.3	–7.0	–3.2	32.9	–18.7	–5.4
Lynchburg	–5.5	–42.0	–28.0	28.8	12.3	27.2	–16.0	–26.9
Norfolk	–4.4	–40.4	8.6	14.3	11.6	76.2	52.0	–3.1
Northern Virginia	–4.4	9.7	24.0	–1.0	7.6	95.7	–1.8	–14.0
Richmond	8.9	–14.8	14.5	1.8	18.3	88.8	–15.8	–34.8
Roanoke	–25.7	–1.1	5.1	14.9	11.3	96.8	–16.8	–47.9
TOTAL METROPOLITAN	–2.1	–17.0	13.5	5.9	10.2	82.0	6.8	–19.5
TOTAL NON-METROPOLITAN	14.1	–21.6	18.9	6.9	6.3	26.1	–6.5	–15.0
TOTAL COUNTIES	6.1	–11.6	15.2	4.2	6.7	63.5	–7.5	–15.1
TOTAL CITIES	–11.2	–32.5	13.8	10.7	15.9	66.5	40.2	–27.6
VIRGINIA	1.7	–18.1	14.7	6.2	9.3	64.4	2.2	–18.0

NOTE: ** = undefined value due to zero divisor or numerator.

TABLE 8.
Annual Change in Nonresidential Building Permits Issued, 1980–1988

	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
COUNTIES								
Accomack	22.5 %	31.5 %	8.0 %	2.0 %	14.0 %	–25.9 %	–24.7 %	67.4 %
Albemarle	–2.1	–2.1	–4.0	–12.7	12.8	12.8	8.4	2.5
Alleghany	**	**	64.0	–32.4	8.8	3.0	**	**
Amelia	120.0	25.0	–33.3	–73.9	27.8	–40.0	100.0	–61.5
Amherst	4.7	–8.5	–6.0	11.1	45.2	0.0	–50.8	350.0
Appomattox	90.9	**	–100.0	183.3	–57.1	27.3	15.8	11.8
Arlington	6.3	–30.4	27.8	–33.3	575.0	–50.0	14.3	–12.5
Augusta	21.1	–7.1	22.0	11.2	–12.9	–1.3	–5.0	5.7
Bath	–42.3	–3.7	200.0	200.0	–92.3	–30.4	**	**
Bedford	**	**	**	**	–36.1	–11.1	–38.6	–24.6
Bland	–90.2	1,266.7	50.0	–71.4	600.0	**	**	100.0
Botetourt	74.4	**	–100.0	–17.5	–24.5	–11.7	33.3	–31.8
Brunswick	–42.9	127.9	–35.8	31.4	21.4	55.6	–12.9	–32.6
Buchanan	–8.0	–21.9	14.3	–33.3	–4.5	–4.3	48.4	–16.2
Buckingham	92.3	**	–100.0	–88.6	94.4	–41.9	138.5	–50.0
Campbell	11.9	18.5	–7.1	2.1	–22.4	35.9	100.0	–28.1
Caroline	100.0	–89.5	0.0	–26.9	8.3	–42.9	82.6	–58.2
Carroll	–35.2	–8.7	15.0	92.3	–16.1	37.8	–33.8	–17.1
Charles City	–15.4	–17.0	27.0	94.7	–13.6	**	**	**
Charlotte	0.0	10.5	26.7	–6.3	–5.9	0.0	–15.0	–48.7
Chesterfield	62.7	–1.0	35.4	1,957.1	–92.9	16.7	–8.7	0.0
Clarke	–31.8	83.3	4.3	21.1	280.0	25.0	100.0	–75.0
Craig	**	**	–92.3	225.0	**	**	**	**
Culpeper	68.0	–73.7	–9.5	–0.9	1.0	52.2	–33.7	5.1
Cumberland	54.5	10.0	–9.1	–54.2	–7.7	–3.7	68.8	–23.8
Dickenson	–77.8	575.0	**	**	–85.7	27.3	37.5	–15.8
Dinwiddie	53.5	90.6	103.8	–54.4	128.0	–10.7	211.1	80.0
Essex	95.8	–44.2	19.4	–2.7	5.7	–12.5	25.0	–3.0
Fairfax	27.3	–25.3	35.6	2.9	91.5	22.0	22.0	–68.0
Fauquier	675.9	–84.3	85.0	–35.1	26.2	–18.7	24.0	1.7
Floyd	–50.0	433.3	–71.4	200.0	16.7	–25.0	–27.3	–47.6
Fluvanna	316.7	20.0	–75.0	–20.0	25.0	–35.5	34.8	43.8
Franklin	22.8	–1.8	16.8	40.9	48.9	–22.7	26.5	0.0
Frederick	–29.6	79.0	–18.5	10.6	–0.8	24.3	–2.7	–20.3
Giles	70.4	3.8	225.0	–50.0	–5.9	41.7	140.0	25.0
Gloucester	115.8	–13.6	15.8	–53.7	70.8	–29.4	70.0	–28.6
Goochland	–29.9	45.0	–15.5	42.0	28.2	–20.4	–7.5	29.3
Grayson	**	1,300.0	–80.0	–78.7	6.8	–26.7	114.3	–22.2
Greene	14.9	–4.1	–9.3	–5.3	96.6	–12.1	–31.3	–18.6
Greensville	–100.0	–62.5	166.7	–50.0	–33.3	**	**	–80.0

TABLE 8. (continued)
Annual Change in Nonresidential Building Permits Issued, 1980–1988

	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
COUNTIES (continued)								
Halifax	0.0 %	–100.0 %	**	**	60.0 %	**	**	0.0 %
Hanover	–29.2	100.0	–32.5 %	3.6 %	25.0	8.6 %	2.5 %	–11.2
Henrico	–4.4	18.8	–6.4	5.1	–5.4	10.7	–0.7	0.7
Henry	17.1	–22.2	5.9	13.3	17.2	14.3	–5.1	–19.2
Highland	18.8	1,500.0	–95.7	0.0	–22.0	–11.9	39.6	–34.2
Isle of Wight	**	**	**	**	**	–27.0	102.3	–22.8
James City	–22.2	–5.3	–47.2	0.0	–78.6	68.0	–8.3	–8.4
King and Queen	**	**	4.2	0.0	–40.0	81.8	633.3	–62.5
King George	300.0	100.0	0.0	–90.9	–35.3	–10.5	–55.8	65.4
King William	66.7	**	–100.0	0.0	**	**	**	**
Lancaster	–14.8	4.8	95.3	–24.6	–1.7	–21.6	4.2	14.5
Lee	42.1	–17.4	53.3	–6.3	45.5	–15.4	0.0	–31.6
Loudoun	**	**	–100.0	–34.5	–40.2	9.5	–3.4	1.2
Louisa	144.4	–30.8	–13.3	25.0	71.4	–63.2	–58.7	39.4
Lunenburg	50.0	–42.9	**	**	**	**	–40.0	29.6
Madison	–26.3	103.6	–3.4	3.6	55.6	–30.8	30.0	–13.0
Mathews	0.0	–25.0	300.0	–98.6	39.6	43.2	8.8	9.7
Mecklenburg	59.5	–1.3	63.3	0.0	–19.7	–14.1	136.7	–44.4
Middlesex	–20.3	–21.6	**	**	48.1	68.8	–30.4	4.5
Montgomery	26.5	9.2	2.7	51.0	14.0	–20.4	–37.2	45.8
Nelson	18.0	17.3	67.7	–24.4	–21.2	–26.8	73.2	–19.6
New Kent	–2.9	–22.7	–4.3	48.4	0.0	3.3	400.0	–50.0
Northampton	100.0	200.0	–93.6	680.0	–33.3	275.0	–63.6	57.1
Northumberland	33.3	0.0	50.0	**	**	200.0	6.3	0.0
Nottoway	–16.7	100.0	0.0	33.3	–50.0	1,700.0	–80.0	–44.4
Orange	50.0	–8.1	131.3	–11.1	–5.3	5.6	0.0	0.0
Page	3.3	–18.6	51.4	9.8	1.5	–3.7	–7.5	16.7
Patrick	–23.3	377.8	–10.0	–33.3	–16.7	157.1	–36.4	–35.3
Pittsylvania	–27.2	10.3	–6.6	–8.4	29.0	14.9	3.1	16.4
Powhatan	22.2	80.0	–68.8	60.0	233.3	200.0	–90.0	–23.1
Prince Edward	66.7	0.0	0.0	–31.8	22.2	80.0	66.7	–33.3
Prince George	146.2	–56.7	–39.4	2.1	47.0	725.0	–88.9	28.6
Prince William	13.8	–17.5	0.0	61.7	42.9	7.7	69.6	–51.1
Pulaski	–26.9	73.3	–11.8	13.3	25.0	–72.7	266.7	20.0
Rappahannock	0.0	–100.0	200.0	–93.5	–24.4	46.4	–31.7	36.7
Richmond	**	**	**	**	0.0	–50.0	–50.0	700.0
Roanoke	–20.6	0.7	1.5	2.3	6.6	149.0	–62.0	12.2
Rockbridge	32.0	–16.7	30.4	–11.5	–5.5	12.2	–16.9	7.3
Rockingham	–11.7	–11.9	23.7	18.8	–6.3	–14.9	–3.6	–44.6
Russell	–75.0	33.3	0.0	–50.0	–14.3	40.0	66.7	–57.1

TABLE 8. (continued)
Annual Change in Nonresidential Building Permits Issued, 1980–1988

	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
COUNTIES (continued)								
Scott	66.7 %	0.0 %	–45.5 %	0.0 %	10.0 %	25.0 %	–27.3 %	120.0 %
Shenandoah	43.2	–6.1	11.5	68.2	–27.9	7.0	–15.6	8.0
Smyth	–17.2	7.4	50.0	38.5	30.0	42.9	–58.8	–15.0
Southampton	–29.7	1,133.3	–89.3	25.0	43.6	–26.4	29.3	3.8
Spotsylvania	38.2	–9.0	21.5	0.0	82.9	115.4	–38.7	–0.9
Stafford	7.8	357.1	–63.2	–5.0	135.3	–29.2	–70.4	5.2
Surry	–54.5	22.2	200.0	–40.0	**	**	400.0	–75.0
Sussex	–10.0	–44.4	260.0	0.0	–68.8	100.0	–81.4	16.2
Tazewell	–70.3	6.3	–13.3	77.8	–12.2	–8.9	45.2	0.0
Warren	–100.0	16.5	9.6	159.4	–22.0	355.6	–71.9	45.5
Washington	–7.6	13.8	11.5	13.0	–28.1	100.0	–28.9	–19.6
Westmoreland	0.0	–100.0	**	**	**	**	**	**
Wise	2.7	27.6	–6.5	–32.6	–17.9	–8.2	35.6	55.2
Wythe	17.5	46.2	–13.3	–35.7	37.3	21.4	–17.6	–5.6
York	–51.6	26.5	81.5	–34.9	10.7	–11.8	–6.6	1.1
CITIES								
Alexandria	39.1	0.0	228.6	–46.2	–73.5	–9.3	28.6	35.5
Bedford	–66.7	–93.5	475.0	14.3	16.7	–25.0	700.0	–75.0
Bristol	–24.2	17.9	–46.2	26.8	105.0	–31.0	7.4	–28.9
Buena Vista	**	**	1,250.0	0.0	–93.9	560.0	150.0	100.0
Charlottesville	–26.8	–16.3	19.5	5.1	–23.5	6.3	54.8	–11.4
Chesapeake	–16.8	–16.9	33.3	1.0	2.0	–67.4	–7.9	51.4
Clifton Forge	–100.0	–57.1	**	**	**	100.0	**	**
Colonial Heights	24.6	1.8	33.3	–27.6	16.0	16.3	616.7	–50.0
Covington	266.7	–50.0	0.0	–14.3	133.3	**	**	–76.2
Danville	29.4	–17.1	54.7	–10.2	0.0	11.3	430.0	–23.1
Emporia	84.6	–7.1	–22.2	28.6	–30.0	100.0	–60.0	31.6
Fairfax	–55.8	152.9	–62.2	200.0	–44.4	800.0	–62.5	–70.4
Falls Church	–80.0	–16.7	–40.0	–33.3	1,400.0	–75.0	100.0	–60.0
Franklin	236.4	–64.5	158.3	20.0	233.3	–75.0	140.0	–16.7
Fredericksburg	34.5	–21.6	37.0	0.0	50.0	80.0	–16.7	200.0
Galax	25.0	–77.8	200.0	–14.3	–56.3	220.0	0.0	–28.6
Hampton	39.2	–20.5	11.1	15.0	14.6	16.7	–10.4	7.1
Harrisonburg	5.9	9.7	12.7	–3.5	39.0	64.0	–39.0	17.1
Hopewell	155.6	–43.8	33.3	–20.0	66.7	0.0	–52.6	–17.4
Lexington	**	**	0.0	**	**	**	–50.0	0.0
Lynchburg	–17.0	13.6	17.3	17.2	25.5	–3.8	0.0	–55.5
Manassas	12.8	11.9	55.6	107.7	225.0	–88.2	70.0	81.8
Manassas Park	–46.9	3.2	138.5	766.7	0.0	0.0	0.0	**
Martinsville	28.6	16.7	0.0	–45.5	175.0	0.0	–33.3	–14.3
Newport News	7.2	73.5	5.4	28.2	10.6	45.3	–4.7	41.8

TABLE 8. (continued)
Annual Change in Nonresidential Building Permits Issued, 1980–1988

	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
CITIES (continued)								
Norfolk	33.3 %	–1.0 %	–8.3 %	–13.5 %	–34.2 %	–14.1 %	160.8 %	–27.8 %
Norton	33.3	0.0	0.0	**	**	**	**	–16.7
Petersburg	–59.3	–15.6	3.2	–31.1	36.4	120.0	–55.9	–8.1
Poquoson	–50.0	33.3	200.0	–71.4	600.0	–96.6	52.6	–38.7
Portsmouth	13.3	–18.5	–16.5	–8.3	126.6	–31.9	–1.1	–9.5
Radford	–85.7	40.0	**	**	100.0	–77.8	12.5	300.0
Richmond	9.2	–25.5	–26.6	3.0	35.0	–37.1	–11.7	13.9
Roanoke	–32.1	–0.7	–14.0	55.4	74.1	–15.9	–19.8	–16.5
Salem	–26.4	10.4	–11.1	–3.6	60.0	–12.5	11.1	–2.7
South Boston	66.7	50.0	–33.3	–25.0	100.0	0.0	–50.0	**
Staunton	–59.3	–15.6	45.5	–37.1	2.9	41.7	242.9	–36.4
Suffolk	–18.8	321.0	–69.9	–30.4	47.3	34.9	–25.9	–19.0
Virginia Beach	3.6	–0.4	5.3	–15.4	21.9	24.2	43.4	0.0
Waynesboro	58.5	10.8	–5.1	–32.8	16.0	92.3	–10.3	–6.5
Williamsburg	10.0	–23.1	–13.3	114.3	0.0	–56.3	60.0	–28.6
Winchester	–5.1	18.0	–29.6	42.0	–12.3	32.6	230.8	8.3
PLANNING DISTRICTS								
LENOWISCO	21.5	6.6	1.7	–17.8	–6.4	–4.9	10.8	25.4
Cumberland Plateau	–62.6	16.0	–5.7	28.2	–23.0	–1.2	45.5	–10.4
Mount Rogers	–30.0	25.2	1.8	0.7	5.6	21.8	–9.5	–17.3
New River Valley	6.9	36.7	6.7	31.9	13.8	–37.0	4.1	27.1
Fifth	–3.0	–0.3	–11.4	12.3	22.1	21.8	–16.3	–19.5
Central Shenandoah	2.2	–8.3	20.6	7.3	–11.9	–2.1	3.4	–33.0
Lord Fairfax	–14.9	13.0	8.6	35.9	–7.2	18.4	–5.9	1.9
Northern Virginia	20.2	–18.2	22.6	14.1	48.5	9.8	23.3	–53.5
Rappahannock–Rapidan	148.3	–58.7	39.3	–25.2	10.5	4.8	–4.3	5.2
Thomas Jefferson	9.9	–2.2	–0.3	–10.4	11.3	–5.2	7.6	–0.3
Central Virginia	2.3	–2.6	2.6	–1.8	–13.4	9.1	–8.6	–20.1
West Piedmont	4.4	2.3	9.8	8.9	28.9	2.4	19.5	–0.3
Southside	3.9	0.0	51.3	6.3	1.8	10.0	42.9	–33.3
Piedmont	41.5	58.2	6.3	–51.2	12.2	–16.1	24.5	–35.3
Richmond Regional	3.8	14.3	–6.5	32.7	–5.2	1.3	–3.8	3.8
RADCO	34.5	–0.5	12.0	–5.3	66.7	35.0	–39.6	–1.5
Northern Neck	–13.2	3.4	95.6	–23.7	–51.6	28.4	0.0	20.3
Middle Peninsula	37.3	–35.2	124.7	–72.7	27.5	28.7	13.8	–4.2
Crater	40.9	–3.4	11.3	–20.9	32.5	81.0	–40.6	1.9
Southeastern Virginia	2.9	20.6	–15.2	–12.9	15.3	–11.8	30.9	–2.3
Peninsula	18.8	5.3	10.8	14.4	1.6	19.9	–7.3	7.4
Accomack–Northampton	36.0	45.8	–53.9	116.9	1.7	–6.5	–29.5	66.0

TABLE 8. (continued)
Annual Change in Nonresidential Building Permits Issued, 1980–1988

	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
METROPOLITAN STATISTICAL AREAS								
Bristol (Va. portion)	–8.6 %	14.1 %	–20.0 %	17.3 %	4.3 %	36.2 %	–16.9 %	–16.2 %
Charlottesville	3.9	–4.4	–6.3	–10.0	15.5	3.8	9.0	–1.5
Danville	–14.5	2.7	5.0	–8.8	22.2	14.0	27.7	13.1
Lynchburg	–0.8	11.0	1.3	8.7	–0.5	17.6	8.6	–17.8
Norfolk	12.3	7.2	0.9	–3.3	11.1	1.8	11.7	2.1
Northern Virginia	19.4	–13.8	19.4	13.2	51.0	8.1	8.2	–48.9
Richmond	11.9	11.6	–4.6	16.8	5.8	11.0	–7.5	4.1
Roanoke	–14.5	15.1	–15.6	15.3	22.0	22.9	–26.4	–7.8
TOTAL METROPOLITAN	9.5	3.9	1.3	3.2	15.3	6.6	5.3	–8.7
TOTAL NON-METROPOLITAN	7.4	–1.1	15.3	1.0	–0.3	2.4	2.4	–15.0
TOTAL COUNTIES	7.9	1.8	8.6	3.3	4.8	7.1	–0.3	–16.5
TOTAL CITIES	9.9	2.1	3.0	0.9	16.1	1.2	12.1	–0.8
VIRGINIA	8.7	1.9	6.5	2.4	9.0	4.8	4.1	–11.5

NOTE: ** = undefined value due to zero divisor or numerator.

VIRGINIA PLANNING DISTRICTS

1 LENOWISCO

Lee County
Scott County
Wise County
Norton City

2 Cumberland Plateau

Buchanan County
Dickenson County
Russell County
Tazewell County

3 Mount Rogers

Bland County
Carroll County
Grayson County
Smyth County
Washington County
Wythe County
Bristol City
Galax City

4 New River Valley

Floyd County
Giles County
Montgomery County
Pulaski County
Radford City

5 Fifth

Alleghany County
Botetourt County
Craig County
Roanoke County
Clifton Forge City
Covington City
Roanoke City
Salem City

6 Central Shenandoah

Augusta County
Bath County
Highland County
Rockbridge County
Rockingham County
Buena Vista City
Harrisonburg City
Lexington City
Staunton City
Waynesboro City

7 Lord Fairfax

Clarke County
Frederick County
Page County
Shenandoah County
Warren County
Winchester City

8 Northern Virginia

Arlington County
Fairfax County
Loudoun County
Prince William County
Alexandria City
Fairfax City
Falls Church City
Manassas City
Manassas Park City

9 Rappahannock-Rapidan

Culpeper County
Fauquier County
Madison County
Orange County
Rappahannock County

10 Thomas Jefferson

Albemarle County
Fluvanna County
Greene County
Louisa County
Nelson County
Charlottesville City

11 Central Virginia

Amherst County
Appomattox County
Bedford County
Campbell County
Bedford City
Lynchburg City

12 West Piedmont

Franklin County
Henry County
Patrick County
Pittsylvania County
Danville City
Martinsville City

13 Southside

Brunswick County
Halifax County
Mecklenburg County
South Boston City

14 Piedmont

Amelia County
Buckingham County
Charlotte County
Cumberland County
Lunenburg County
Nottoway County
Prince Edward County

VIRGINIA PLANNING DISTRICTS (continued)

15 Richmond Regional

Charles City County
Chesterfield County
Goochland County
Hanover County
Henrico County
New Kent County
Powhatan County
Richmond City

16 RADCO

Caroline County
King George County
Spotsylvania County
Stafford County
Fredericksburg City

17 Northern Neck

Lancaster County
Northumberland County
Richmond County
Westmoreland County

18 Middle Peninsula

Essex County
Gloucester County
King and Queen County
King William County
Mathews County
Middlesex County

19 Crater

Dinwiddie County
Greensville County
Prince George County
Surry County
Sussex County
Colonial Heights City
Emporia City
Hopewell City
Petersburg City

20 Southeastern Virginia

Isle of Wight County
Southampton County
Chesapeake City
Franklin City
Norfolk City
Portsmouth City
Suffolk City
Virginia Beach City

21 Peninsula

James City County
York County
Hampton City
Newport News City
Poquoson City
Williamsburg City

22 Accomack-Northampton

Accomack County
Northampton County

METROPOLITAN STATISTICAL AREAS

Charlottesville

- Albemarle County
- Fluvanna County
- Greene County
- Charlottesville City

Danville

- Pittsylvania County
- Danville City

Johnson City-Kingsport-Bristol, Tennessee-Virginia

Virginia Portion:
- Scott County
- Washington County
- Bristol City

Tennessee Portion:
- Carter County
- Hawkins County
- Sullivan County
- Unicoi County
- Washington County

Lynchburg[a]

- Amherst County
- Campbell County
- Lynchburg City

Norfolk-Virginia Beach-Newport News[b]

- Gloucester County
- James City County
- York County
- Chesapeake City
- Norfolk City
- Portsmouth City
- Suffolk City
- Virginia Beach City
- Hampton City
- Newport News City
- Poquoson City
- Williamsburg City

Richmond-Petersburg[c]

- Charles City County
- Chesterfield County
- Goochland County
- Hanover County
- Henrico County
- New Kent County
- Powhatan County
- Dinwiddie County
- Prince George County
- Colonial Heights City
- Hopewell City
- Petersburg City
- Richmond City

Roanoke[d]

- Botetourt County
- Roanoke County
- Roanoke City
- Salem City

Washington, D.C.-Maryland-Virginia[e]

Virginia Portion:
- Arlington County
- Fairfax County
- Loudoun County
- Prince William County
- Stafford County
- Alexandria City
- Fairfax City
- Falls Church City
- Manassas City
- Manassas Park City

District of Columbia

Maryland Portion:
- Calvert County
- Charles County
- Frederick County
- Montgomery County
- Prince George's County

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[a] Appomattox County was removed from the Lynchburg MSA on June 30, 1983.

[b] On June 30, 1983 the Norfolk-Virginia Beach-Portsmouth MSA and the Newport News-Hampton MSA were combined to form the Norfolk-Virginia Beach-Newport News MSA.

[c] On June 30, 1983 the Petersburg-Colonial Heights-Hopewell MSA and the Richmond MSA were combined to form the Richmond-Petersburg MSA.

[d] Craig County was removed from the Roanoke MSA on June 30, 1983.

[e] Stafford County, Va., and Calvert and Frederick Counties, Md., were added to the Washington, D.C.-Md.-Va. MSA on June 30, 1983.

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